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The booklet is intended to provide practical help for authors of mathematical papers. It will be useful both as a guide for beginners and as a reference book for experienced writers.

The first part of the booklet provides a useful collection of ready-made sentences and expressions occurring in mathematical papers. The examples are divided into sections according to their use (in introductions, definitions, theorems, proofs, comments, references to the literature, acknowledgments, editorial correspondence and referee's reports). Typical errors are also pointed out.

The second part concerns selected problems of English grammar and usage, most often encountered by mathematical writers. Just as in the first part, an abundance of examples are presented, all of them taken from the actual mathematical texts.

The index enables the reader to find many particular pieces of information scattered throughout the text.

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WRITING MATHEMATICAL PAPERS IN ENGLISH

a practical guide

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PART A: PHRASES USED IN MATHEMATICAL TEXTS

ABSTRACT AND INTRODUCTION

We prove that in some families of compacta there are no universal elements.
It is also shown that

Some relevant counterexamples are indicated.

It is of interest to know whether We wish to investigate

We are interested in finding Our purpose is to

It is natural to try to relate to

This work was intended as an attempt to motivate (at motivating)

The aim of this paper is to bring together two areas in which

In Section 3 the third section [Note: paragraph ≠ section]	we	review some of the standard facts on
		have compiled some basic facts
		summarize without proofs the relevant material on
		give a brief exposition of
		briefly sketch
		set up notation and terminology.
		discuss (study/treat/examine) the case
		introduce the notion of
		develop the theory of
		will look more closely at
will be concerned with		
proceed with the study of		
indicate how these techniques may be used to		
extend the results of to		
derive an interesting formula for		
it is shown that		
some of the recent results are reviewed in a more general setting.		
some applications are indicated.		
our main results are stated and proved.		

Section 4	contains a brief summary (a discussion) of
	deals with (discusses) the case
	is intended to motivate our investigation of
	is devoted to the study of
	provides a detailed exposition of
establishes the relation between	
presents some preliminaries.	

We will	touch only a few aspects of the theory.
	restrict our attention (the discussion/ourselves) to

It is not our purpose to study

No attempt has been made here to develop

It is possible that but we will not develop this point here.

→ A more complete theory may be obtained by

However,	this topic exceeds the scope of this paper.
	we will not use this fact in any essential way.

The basic (main)	idea is to apply
	geometric ingredient is

The crucial fact is that the norm satisfies

Our proof involves looking at

The proof is	based on the concept of
	similar in spirit to
	adapted from

This idea goes back at least as far as [7].

This idea goes back at least as far as [7].

We emphasize that

It is worth pointing out that

The important point to note here is the form of

The advantage of using lies in the fact that

The estimate we obtain in the course of proof seems to be of independent interest.

Our theorem provides a natural and intrinsic characterization of

Our proof makes no appeal to

Our viewpoint sheds some new light on

Our example demonstrates rather strikingly that

The choice of seems to be the best adapted to our theory.

The problem is that

The main difficulty in carrying out this construction is that

In this case the method of breaks down.

This class is not well adapted to

Pointwise convergence presents a more delicate problem.

The results of this paper were announced without proofs in [8].

The detailed proofs will appear in [8] (elsewhere/in a forthcoming publication).

For the proofs we refer the reader to [6].

It is to be expected that

One may conjecture that

One may ask whether this is still true if

One question still unanswered is whether

The affirmative solution would allow one to

It would be desirable to but we have not been able to do this.

These results are far from being conclusive.

This question is at present far from being solved.

Our method has the disadvantage of not being intrinsic.
 The solution falls short of providing an explicit formula.
 What is still lacking is an explicit description of

As for prerequisites, the reader is expected to be familiar with
 The first two chapters of constitute sufficient preparation.
 No preliminary knowledge of is required.

To facilitate access to the individual topics, the chapters are rendered as self-contained as possible.

For the convenience of the reader we repeat the relevant material from [7] without proofs, thus making our exposition self-contained.

DEFINITION

A set S is *dense* if

A set S is called (said to be) *dense* if

We call a set *dense* if

We call m the *product measure*. [Note: The term defined appears *last*.]

The function f is given (defined) by $f = \dots$

Let f be given (defined) by $f = \dots$

We define T to be $AB + CD$.

This map is defined by $\left\{ \begin{array}{l} \text{requiring } f \text{ to be constant on } \dots \\ \text{the requirement that } f \text{ be constant on } \dots \\ \text{[Note the infinitive.]} \\ \text{imposing the following condition: } \dots \end{array} \right.$

The *length* of a sequence is, by definition, the number of

The *length* of T , denoted by $l(T)$, is defined to be

By the *length* of T we mean

Define (Let/Set) $E = Lf$, where $\left\{ \begin{array}{l} f \text{ is } \dots \\ \text{we have set } f = \dots \\ f \text{ being the solution of } \dots \\ \text{with } f \text{ satisfying } \dots \end{array} \right.$

We will consider $\left\{ \begin{array}{l} \text{the behaviour of the family } g \text{ defined as follows.} \\ \text{the height of } g \text{ (to be defined later) and } \dots \end{array} \right.$

To measure the growth of g we make the following definition.

In this way we obtain what $\left\{ \begin{array}{l} \text{we shall call} \\ \text{will be referred to as} \\ \text{is known as} \end{array} \right.$ the *P-system*.

Since, $\left\{ \begin{array}{l} \text{the norm of } f \text{ is well defined.} \\ \text{the definition of the norm is unambiguous (makes sense).} \end{array} \right.$

It is immaterial which M we choose to define F as long as M contains x .
 This product is independent of which member of g we choose to define it.
 It is Proposition 8 that makes this definition allowable.

Our definition agrees $\left\{ \begin{array}{l} \text{with the one given in [7] if } u \text{ is } \dots \\ \text{with the classical one for } \dots \end{array} \right.$

Note that $\left\{ \begin{array}{l} \text{this coincides with our previously introduced} \\ \text{terminology if } K \text{ is convex.} \\ \text{this is in agreement with [7] for } \dots \end{array} \right.$

NOTATION

We will denote by Z $\left\{ \begin{array}{l} \text{the set } \dots \\ \text{the set } \dots \end{array} \right.$ Write (Let/Set) $f = \dots$
 Let us denote by Z $\left\{ \begin{array}{l} \text{the set } \dots \\ \text{the set } \dots \end{array} \right.$ [Not: "Denote $f = \dots$ "]
 Let Z denote $\left\{ \begin{array}{l} \text{the set } \dots \\ \text{the set } \dots \end{array} \right.$

The closure of A will be denoted by $\text{cl}A$.

We will use the symbol (letter) k to denote

We write H for the value of

We will write the negation of p as $\neg p$.

The notation aRb means that

Such cycles are called homologous (written $c \sim c'$).

Here

Here and subsequently, $\left\{ \begin{array}{l} \text{Throughout the proof,} \\ \text{In the sequel,} \\ \text{From now on,} \end{array} \right.$ K $\left\{ \begin{array}{l} \text{denotes} \\ \text{stands for} \end{array} \right.$ the map

We follow the notation of [8] (used in [8]).

Our notation differs (is slightly different) from that of [8].

Let us introduce the temporary notation Ff for gfg .

With the notation $f = \dots$, $\left\{ \begin{array}{l} \text{we have } \dots \\ \text{we have } \dots \end{array} \right.$

With this notation, $\left\{ \begin{array}{l} \text{we have } \dots \\ \text{we have } \dots \end{array} \right.$

In the notation of [8, Ch. 7] $\left\{ \begin{array}{l} \text{we have } \dots \\ \text{we have } \dots \end{array} \right.$

If f is real, it is customary to write rather than

For simplicity of notation, $\left\{ \begin{array}{l} \text{write } f \text{ instead of } \dots \\ \text{use the same letter } f \text{ for } \dots \\ \text{continue to write } f \text{ for } \dots \\ \text{let } f \text{ stand for } \dots \end{array} \right.$
 To (simplify/shorten) notation, $\left\{ \begin{array}{l} \text{write } f \text{ instead of } \dots \\ \text{use the same letter } f \text{ for } \dots \\ \text{continue to write } f \text{ for } \dots \\ \text{let } f \text{ stand for } \dots \end{array} \right.$
 By abuse of notation, $\left\{ \begin{array}{l} \text{write } f \text{ instead of } \dots \\ \text{use the same letter } f \text{ for } \dots \\ \text{continue to write } f \text{ for } \dots \\ \text{let } f \text{ stand for } \dots \end{array} \right.$
 For abbreviation, $\left\{ \begin{array}{l} \text{write } f \text{ instead of } \dots \\ \text{use the same letter } f \text{ for } \dots \\ \text{continue to write } f \text{ for } \dots \\ \text{let } f \text{ stand for } \dots \end{array} \right.$

We abbreviate $Faub$ to b' .

We denote it briefly by F . [Not: "shortly"]

We write it F for short (for brevity).

The Radon-Nikodym property (RNP for short) implies that

We will write it simply x when no confusion can arise.

It will cause no confusion if we use the same letter to designate a member of A and its restriction to K .

We shall write the above expression as
 The above expression may be written as $t = \dots$
 We can write (4) in the form

The Greek indices label components of sections of E .

Print terminology:

The expression in italics (in italic type), in large type, in bold print;
 in parentheses () (= round brackets),
 in brackets [] (= square brackets),
 in braces { } (= curly brackets), in angular brackets < >;
 within the norm signs

Capital letters = upper case letters; small letters = lower case letters;
 Gothic (German) letters; script (calligraphic) letters (e.g. \mathcal{F} , \mathcal{G});
 special Roman letters (e.g. \mathbf{R} , \mathbf{N})

Dot \cdot , prime $'$, asterisk = star $*$, tilde \sim , bar $\bar{}$ [over a symbol], hat $\hat{}$,
 vertical stroke (vertical bar) $|$, slash (diagonal stroke/slant) $/$,
 dash $-$, sharp $\#$

Dotted line $\dots\dots$, dashed line $-----$, wavy line $\sim\sim\sim\sim$

PROPERTY

the (an) element $\left| \begin{array}{l} \text{such that (with the property that) } \dots \\ \text{[Not: "such an element that"]} \\ \text{with the following properties: } \dots \\ \text{satisfying } Lf = \dots \\ \text{with } Nf = 1 \text{ (with coordinates } x, y, z) \\ \text{of norm 1 (of the form } \dots) \\ \text{whose norm is } \dots \\ \text{all of whose subsets are } \dots \\ \text{by means of which } g \text{ can be computed} \\ \text{for which this is true} \\ \text{at which } g \text{ has a local maximum} \\ \text{described by the equations } \dots \\ \text{given by } Lf = \dots \\ \text{depending only on } \dots \text{ (independent of } \dots) \\ \text{not in } A \\ \text{so small that (small enough that) } \dots \\ \text{as above (as in the previous theorem)} \\ \text{so obtained} \\ \text{occurring in the cone condition} \\ \text{[Note the double "r".]} \\ \text{guaranteed by the assumption } \dots \end{array} \right.$

the (an) element $\left| \begin{array}{l} \text{we have just defined} \\ \text{we wish to study (we used in Chapter 7)} \\ \text{to be defined later [= which will be defined]} \\ \text{in question} \\ \text{under study (consideration)} \end{array} \right.$

\dots , the constant C being independent of \dots [= where C is \dots]
 \dots , the supremum being taken over all cubes \dots
 \dots , the limit being taken in L .

\dots , where C $\left| \begin{array}{l} \text{is so chosen that } \dots \\ \text{is to be chosen later.} \\ \text{is a suitable constant.} \\ \text{is a conveniently chosen element of } \dots \\ \text{involves the derivatives of } \dots \\ \text{ranges over all subsets of } \dots \\ \text{may be made arbitrarily small by } \dots \end{array} \right.$

The operators A_i $\left| \begin{array}{l} \text{have (share) many of the properties of } \dots \\ \text{have still better smoothness properties.} \\ \text{lack (fail to have) the smoothness properties of } \dots \\ \text{still have norm 1.} \\ \text{not merely symmetric but actually self-adjoint.} \\ \text{not necessarily monotone.} \\ \text{both symmetric and positive-definite.} \\ \text{not continuous, nor do they satisfy (2).} \\ \text{[Note the inverse word order after "nor".]} \\ \text{are neither symmetric nor positive-definite.} \\ \text{only nonnegative rather than strictly} \\ \text{positive, as one may have expected.} \\ \text{any self-adjoint operators, possibly even} \\ \text{unbounded.} \\ \text{still (no longer) self-adjoint.} \\ \text{not too far from being self-adjoint.} \end{array} \right.$

The $\left| \begin{array}{l} \text{preceding theorem} \\ \text{indicated set} \\ \text{above-mentioned group} \\ \text{resulting region} \\ \text{required (desired) element} \end{array} \right. \left[\begin{array}{l} \text{But adjectival clauses with} \\ \text{prepositions come } \textit{after} \text{ a noun,} \\ \text{e.g. "the group defined in Section 1".} \end{array} \right.$

Both X and Y are finite.
 Neither X nor Y is finite.
 X and Y are countable, but neither is finite.
 Neither of them is finite. [Note: "Neither" refers to *two* alternatives.]
 None of the functions F_i is finite.
 X is not finite; nor (neither) is Y .

X is not finite, nor is Y countable. [Note the inversion.]

X is empty | ; so is Y .
| , but Y is not.

X belongs to Y | ; so does Z .
| , but Z does not.

ASSUMPTION, CONDITION, CONVENTION

We will make (need) the following assumptions:

From now on we make the assumption:

The following assumption will be needed throughout the paper.

Our basic assumption is the following.

Unless otherwise stated (Until further notice) we assume that

In the remainder of this section we assume (require) g to be

In order to get asymptotic results, it is necessary to put some restrictions on f .

We shall make two standing assumptions on the maps under consideration.

It is required (assumed) that

The requirement on g is that

....., where g | is subject to the condition $Lg = 0$.
| satisfies the condition $Lg = 0$.
| is merely required to be positive.

Let us orient M by | the requirement that g be positive.
| [Note the infinitive.]
| requiring g to be

imposing the condition:

(4) holds | for (provided/whenever/only in case) $p \neq 1$.
| unless $p = 1$.

under | the condition (hypothesis) that

| the more general assumption that

| some further restrictions on

| additional (weaker) assumptions.

F | satisfies (fails to satisfy) the assumptions of

| has the desired (asserted) properties.

| provides the desired diffeomorphism.

| still satisfies (need not satisfy) the requirement that

| meets this condition.

| does not necessarily have this property.

| satisfies all the other conditions for membership of X .

There is no loss of generality in assuming

Without loss (restriction) of generality we can assume

This involves no loss of generality.

We can certainly assume that | , since otherwise

| , for [= because]

| , for if not, we replace

| . Indeed,

Neither the hypothesis nor the conclusion is affected if we replace

By choosing $b = a$ we may actually assume that

If $f = 1$, which we may assume, then

For simplicity (convenience) we ignore the dependence of F on g .

[E.g. in notation]

It is convenient to choose

We can assume, by decreasing k if necessary, that

F meets S transversally, say at $F(0)$.

There exists a minimal element, say n , of F .

G acts on H as a multiple (say n) of V .

For definiteness (To be specific), consider

This condition | is not particularly restrictive.
| is surprisingly mild.
| admits (rules out/excludes) elements of

| is essential to the proof.

| cannot be weakened (relaxed/improved/omitted/
| dropped).

The theorem is true if "open" is deleted from the hypotheses.

The assumption is superfluous (redundant/unnecessarily restrictive).

We will now show how to dispense with the assumption on

Our lemma does not involve any assumptions about curvature.

We have been working under the assumption that

Now suppose that this is no longer so.

To study the general case, take

For the general case, set

The map f will be viewed (regarded/thought of) as | a functor

| realizing

From now on we | think of L as being constant.
| regard f as a map from

| tacitly assume that

It is understood that $r \neq 1$.

We adopt (adhere to) the convention that $0/0=0$.

THEOREM: GENERAL REMARKS

This theorem	is	an extension (a fairly straightforward generalization/a sharpened version/a refinement) of
		an analogue of
		a reformulation (restatement) of in terms of
		analogous to
		a partial converse of
		an answer to a question raised by
		deals with
		ensures the existence of
		expresses the equivalence of
		provides a criterion for
yields information about		
makes it legitimate to apply		

The theorem states (asserts/shows) that

Roughly (Loosely) speaking, the formula says that

When f is open, (3.7) just amounts to saying that
to the fact that

Here is another way of stating (c):

Another way of stating (c) is to say:

An equivalent formulation of (c) is:

Theorems 2 and 3 may be summarized by saying that

Assertion (ii) is nothing but the statement that

Geometrically speaking, the hypothesis is that: part of the conclusion is that

The interest

The principal significance	of the lemma is	in the assertion
The point		that it allows one to

The theorem gains in interest if we realize that

The theorem	is still true	if	we drop the assumption
	still holds		it is only assumed that

If we take $f = \dots$	we recover	the standard lemma
Replacing f by $-f$,		[7, Theorem 5].

This specializes to the result of [7] if $f = g$.

This result will	be needed in	Section 8.
	prove extremely useful in	
	not be needed until	

THEOREM: INTRODUCTORY PHRASE

We have thus proved	We can now	rephrase Theorem 8 as follows.
Summarizing, we have		state the analogue of
		formulate our main results.

We are thus led to the following strengthening of Theorem 6:

The remainder of this section will be devoted to the proof of

The continuity of A is established by our next theorem.

The following result may be proved in much the same way as Theorem 6.

Here are some elementary properties of these concepts.

Let us mention two important consequences of the theorem.

We begin with a general result on such operators.

[Note: Sentences of the type "We now have the following lemma", carrying no information, can in general be cancelled.]

THEOREM: FORMULATION

If and if, then

Let M be	Suppose that	Then,	provided $m \neq 1$.
	Assume that		unless $m = 1$.
	Write		with g a constant satisfying

Furthermore (Moreover),

In fact, [= To be more precise]

Accordingly, [= Thus]

Given any $f \neq 1$ suppose that Then

Let P satisfy	the hypotheses of	Then
	the above assumptions.	
	$N(P) = 1$.	

Let assumptions 1-5 hold. Then

Under the above assumptions,

Under the same hypotheses,

Under the conditions stated above,

Under the assumptions of Theorem 2 with "convergent" replaced by "weakly convergent",

Under the hypotheses of Theorem 5, if moreover

Equality holds in (8) if and only if

The following conditions are equivalent:

[Note: Expressions like "the following inequality holds" can in general be dropped.]

PROOF: BEGINNING

We Let us first $\left\{ \begin{array}{l} \text{prove (show/recall/observe) that } \dots \\ \text{prove a reduced form of the theorem.} \\ \text{outline (give the main ideas of) the proof.} \\ \text{examine } Bf. \end{array} \right.$

But $A = B$. $\left\{ \begin{array}{l} \text{To see (prove) this, let } f = \dots \\ \text{We prove this as follows.} \\ \text{This is proved by writing } g = \dots \end{array} \right.$

We first compute If . $\left\{ \begin{array}{l} \text{To this end, consider } \dots \\ \quad [= \text{ For this purpose; } \textit{not}: \text{ "To this aim"}] \\ \text{To do this, take } \dots \\ \text{For this purpose, we set } \dots \end{array} \right.$

To deduce (3) from (2), take \dots

We claim that \dots . Indeed, \dots

We begin by proving \dots (by recalling the notion of \dots)

Our proof starts with the observation that \dots

The procedure is to find \dots

The proof consists in the construction of \dots

The proof is $\left\{ \begin{array}{l} \text{straightforward (quite involved).} \\ \text{by induction on } n. \\ \text{left to the reader.} \\ \text{based on the following observation.} \end{array} \right.$

The main (basic) idea of the proof is to take \dots

The proof $\left\{ \begin{array}{l} \text{falls naturally into three parts.} \\ \text{will be divided into 3 steps.} \end{array} \right.$

We have divided the proof into a sequence of lemmas.

Suppose $\left\{ \begin{array}{l} \text{the assertion of the lemma is false.} \\ \text{, contrary to our claim, that } \dots \end{array} \right.$

Conversely (To obtain a contradiction), $\left\{ \begin{array}{l} \text{suppose that } \dots \\ \text{On the contrary,} \end{array} \right.$

Suppose the lemma were false. Then we could find \dots

If $\left\{ \begin{array}{l} \text{there existed an } x \dots, \\ x \text{ were not in } B, \\ \text{it were true that } \dots, \end{array} \right. \left\{ \begin{array}{l} \text{we would have } \dots \\ \text{there would be } \dots \end{array} \right.$

Assume the formula holds for the degree k ; we will prove it for $k + 1$.

Assuming (5) to hold for k , we will prove it for $k + 1$.

We give the proof only for the case $n = 3$; the other cases are left to the reader.

We only give the main ideas of the proof.

PROOF: ARGUMENTS

By $\left\{ \begin{array}{l} \text{definition, } \dots \\ \text{the definition of } \dots \\ \text{assumption, } \dots \\ \text{the compactness of } \dots \\ \text{Taylor's formula, } \dots \\ \text{a similar argument, } \dots \\ \text{the above, } \dots \\ \text{the lemma below, } \dots \\ \text{continuity, } \dots \end{array} \right. \left\{ \begin{array}{l} \text{But } f = g \\ \text{Theorem 4 now} \end{array} \right. \left\{ \begin{array}{l} \text{, which follows from } \dots \\ \text{as was described} \\ \text{(shown/mentioned/} \\ \text{noted) in } \dots \\ \text{shows that } \dots \\ \text{yields (gives/} \\ \text{implies) } f = \dots \\ \text{leads to } f = \dots \end{array} \right.$

Since f is compact, $\left\{ \begin{array}{l} Lf = 0. \text{ [Not: "Since } \dots, \text{ then } \dots"]} \\ \text{we have } Lf = 0. \\ \text{it follows that } Lf = 0. \\ \text{we see (conclude) that } Lf = 0. \end{array} \right.$

But $Lf = 0$ since f is compact.

We have $Lf = 0$, because \dots [+ a longer explanation]

We must have $Lf = 0$, for otherwise we can replace \dots

As f is compact we have $Lf = 0$.

Therefore $Lf = 0$ by Theorem 6.

That $Lf = 0$ follows from Theorem 6.

From $\left\{ \begin{array}{l} \text{this} \\ \text{(5)} \\ \text{what has already} \\ \text{been proved,} \end{array} \right. \left\{ \begin{array}{l} \text{we conclude (deduce/see) that } \dots \\ \text{we have (obtain) } M = N. \\ \text{[Note: without "that"]} \\ \text{it follows that } \dots \\ \text{it may be concluded that } \dots \end{array} \right.$

According to (On account of) the above remark, we have $M = N$.

It follows that
Hence (Thus/Consequently,/Therefore) $M = N$.

[hence = from this; thus = in this way; therefore = for this reason;
it follows that = from the above it follows that]

This gives $M = N$.

We thus get $M = N$.

The result is $M = N$.

(3) now becomes $M = N$.

This clearly forces $M = N$.

F is compact, $\left\{ \begin{array}{l} \text{and so } M = N. \\ \text{and consequently } M = N. \\ \text{and, in consequence, } M = N. \\ \text{and hence bounded.} \\ \text{which gives (implies/} \\ \text{yields) } M = N. \\ \text{[Not: "what gives"}] \end{array} \right.$

$F = G = H$, $\left\{ \begin{array}{l} \text{the last equality being a consequence of Theorem 7.} \\ \text{which is due to the fact that } \dots \end{array} \right.$

Since \dots , (2) shows that \dots , by (4).

We conclude from (5) that \dots , hence that \dots , and finally that \dots

The equality $f = g$, which is part of the conclusion of Theorem 7, implies that

As in the proof of Theorem 8, equation (4) gives
 Analysis similar to that in the proof of Theorem 5 shows that [Not: "similar as in"]
 A passage to the limit similar to the above implies that
 Similarly (Likewise),

Similar arguments apply | to the case
 The same reasoning applies |

The same conclusion can be drawn for
 This follows by the same method as in
 The term Tf can be handled in much the same way, the only difference being in the analysis of
 In the same manner we can see that
 The rest of the proof runs as before.
 We now apply this argument again, with I replaced by J , to obtain

PROOF: CONSECUTIVE STEPS

Consider	Define		evaluate
Choose	Let	$f = \dots$	compute
Fix	Set	Let us	apply the formula to
			suppose for the moment
			regard s as fixed and

[Note: The imperative mood is used when you *order* the reader to do something, so you should not write e.g. "Give an example of" if you mean "We give an example of"]

Adding g to the left-hand side	
Subtracting (3) from (5)	yields (gives) $h = \dots$
Writing (Taking) $h = Hf$	we obtain (get/have) $f = g$
Substituting (4) into (6)	[Note: without "that"]
Combining (3) with (6)	we conclude (deduce/see) that
Combining these	we can assert that
[E.g. these inequalities]	we can rewrite (5) as
Replacing (2) by (3)	
Letting $n \rightarrow \infty$	
Applying (5)	
Interchanging f and g	

[Note: The ing-form is either the subject of a sentence ("Adding gives"), or requires the subject "we" ("Adding we obtain"); so do *not* write e.g. "Adding the proof is complete."]

We continue in this fashion obtaining (to obtain) $f = \dots$
 We may now integrate k times to conclude that

Repeated application of Lemma 6 enables us to write
 We now proceed by induction.
 We can now proceed analogously to the proof of

We next | claim (show/prove that)
 | sharpen these results and prove that

Our next | claim is that
 | goal is to determine the number of
 | objective is to evaluate the integral I .
 | concern will be the behaviour of

We now turn to the case $f \neq 1$.
 We are now in a position to show [= We are able to]
 We proceed to show that
 The task is now to find
 Having disposed of this preliminary step, we can now return to

We wish to arrange that f be as smooth as possible.
 [Note the infinitive.]
 We are thus looking for the family
 We have to construct

In order to get this inequality, it | will be necessary to
 | is convenient to

To deal with If , |
 To estimate the other term, | we note that
 For the general case, |

PROOF: "IT IS SUFFICIENT TO"

It | suffices | to | show (prove) that
 | is sufficient | to | make the following observation.
 | use (4) together with the observation that

We need only consider 3 cases:
 We only need to show that

It remains to prove that (to exclude the case when)
 What is left is to show that
 We are reduced to proving (4) for
 We are left with the task of determining
 The only point remaining concerns the behaviour of
 The proof is completed by showing that
 We shall have established the lemma if we prove the following:
 If we prove that, the assertion follows.
 The statement $O(g) = 1$ will be proved once we prove the lemma below.

PROOF: "IT IS EASILY SEEN THAT"

It is | clear (evident/immediate/obvious) that
 easily seen that
 easy to check that
 a simple matter to

We see (check) at once that , which is clear from (3).
 F is easily seen (checked) to be smooth., as is easy to check.

It follows easily (immediately) that

Of course (Clearly/Obviously),

The proof is straightforward (standard/immediate).

An easy computation (A trivial verification) shows that

(2) makes it obvious that [= By (2) it is obvious that]

The factor Gf poses no problem because G is

PROOF: CONCLUSION AND REMARKS

....., which | proves the theorem.
 [Not: "what"] | completes the proof.
 This | establishes the formula.
 | is the desired conclusion.
 | is our claim (assertion). [Not: "thesis"]
 | gives (4) when substituted in (5) (combined with (5)).

....., and | the proof is complete.
 | this is precisely the assertion of the lemma.
 | the lemma follows.
 | (3) is proved.
 | $f = g$ as claimed (required).

This contradicts our assumption (the fact that).

....., contrary to (3).

....., which is impossible. [Not: "what is"]

....., which contradicts the maximality of

....., a contradiction.

The proof for G is similar.

G may be handled in much the same way.

Similar considerations apply to G .

The same proof | works (remains valid) for
 | still goes (fails) when we drop the assumption

The method of proof carries over to domains

The proof above gives more, namely f is

A slight change in the proof actually shows that

Note that we have actually proved that
 [= We have proved more, namely that

We have used | only the fact that
 | the existence of only the right-hand derivative.

For $f = 1$ | it is no longer true that
 | the argument breaks down.

The proof strongly depended on the assumption that

Note that we did not really have to use; we could have applied

For more details we refer the reader to [7].

The details are left to the reader.

We leave it to the reader to verify that [Note: "it" necessary]

This finishes the proof, the detailed verification of (4) being left to the reader.

REFERENCES TO THE LITERATURE

(see for instance [7, Th. 1]) (see [7] and the references given there)

(see [Ka2] for | more details
 | the definition of
 | the complete bibliography)

The best general reference here | is This | was proved by Lax [8].
 The standard work on | can be found in
 The classical work here | Lax [7, Ch. 2].

This construction | is due to Strang [8].
 | goes back | to the work of
 | as far as [8].
 | was motivated by [7].
 | generalizes that of [7].
 | follows [7].
 | is adapted from [7] (appears in [7]).
 | has previously been used by Lax [7].

For | a recent account of the theory
 | a treatment of a more general case
 | a fuller (thorough) treatment
 | a deeper discussion of we refer the reader to [7].
 | direct constructions along more
 | classical lines
 | yet another method

We introduce the notion of, following Kato [7].

We follow [Ka] in assuming that

The main results of this paper were announced in [7].
 Similar results have been obtained independently by Lax and are to be published in [7].

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HOW TO SHORTEN THE PAPER

General rules:

1. Remember: you are writing for an expert. Cross out all that is trivial or routine.
2. Avoid repetition: do not repeat the assumptions of a theorem at the beginning of its proof, or a complicated conclusion at the end of the proof. Do not repeat the assumptions of a previous theorem in the statement of a next one (instead, write e.g. "Under the hypotheses of Theorem 1 with f replaced by g ,"). Do not repeat the same formula—use a label instead.
3. Check all formulas: is each of them necessary?

Phrases you can cross out:

We denote by \mathbf{R} the set of all real numbers.
 We have the following lemma.
 The following lemma will be useful.
 the following inequality is satisfied:

Phrases you can shorten (see also p. 38):

Let ε be an arbitrary but fixed positive number \rightsquigarrow Fix $\varepsilon > 0$
 Let us fix arbitrarily $x \in X$ \rightsquigarrow Fix $x \in X$
 Let us first observe that \rightsquigarrow First observe that
 We will first compute \rightsquigarrow We first compute
 Hence we have $x=1$ \rightsquigarrow Hence $x=1$
 Hence it follows that $x=1$ \rightsquigarrow Hence $x=1$

Taking into account (4) \rightsquigarrow By (4)

By virtue of (4) \rightsquigarrow By (4)

By relation (4) \rightsquigarrow By (4)

In the interval $[0, 1]$ \rightsquigarrow In $[0, 1]$

There exists a function $f \in C(X)$ \rightsquigarrow There exists $f \in C(X)$

For every point $p \in M$ \rightsquigarrow For every $p \in M$

F is defined by the formula $F(x)=\dots$ \rightsquigarrow F is defined by $F(x)=\dots$

Theorem 2 and Theorem 5 \rightsquigarrow Theorems 2 and 5

This follows from (4), (5), (6) and (7) \rightsquigarrow This follows from (4)-(7)

For details see [3], [4] and [5] \rightsquigarrow For details see [3]-[5]

The derivative with respect to t \rightsquigarrow The t -derivative

A function of class C^2 \rightsquigarrow A C^2 function

For arbitrary x \rightsquigarrow For all x (For every x)

In the case $n = 5$ \rightsquigarrow For $n = 5$

This leads to a contradiction with the maximality of f

\rightsquigarrow , contrary to the maximality of f

Applying Lemma 1 we conclude that \rightsquigarrow Lemma 1 shows that

....., which completes the proof \rightsquigarrow ■

EDITORIAL CORRESPONDENCE

I would like to submit | the enclosed manuscript "....."
 I am submitting | for publication in *Studia Mathematica*.

I have also included a reprint of my article for the convenience of the referee.

I wish to withdraw my paper as I intend to make a major revision of it.

I regret any inconvenience this may have caused you.

I am very pleased that the paper will appear in *Fundamenta*.

Thank you very much for accepting my paper for publication in

Please find enclosed two copies of the revised version.

As the referee suggested, I inserted a reference to the theorem of

We have followed the referee's suggestions.

I have complied with almost all suggestions of the referee.

REFeree's REPORT

The author proves the interesting result that

The proof is short and simple, and the article well written.

The results presented are original.

The paper is a good piece of work on a subject that attracts considerable attention.

I am pleased to
It is a pleasure to
I strongly

recommend it for publication in
Studia Mathematica.

The only remark I wish to make is that condition B should be formulated more carefully.

A few minor typographical errors are listed below.

I have indicated various corrections on the manuscript.

The results obtained are not particularly surprising and will be of limited interest.

The results are

correct but only moderately interesting.
rather easy modifications of known facts.

The example is worthwhile but not of sufficient interest for a research article.

The English of the paper needs a thorough revision.

The paper does not meet the standards of your journal.

Theorem 2 is false

as stated.
in this generality.

Lemma 2 is known (see)

Accordingly, I recommend that the paper be rejected.

PART B: SELECTED PROBLEMS OF ENGLISH GRAMMAR

INDEFINITE ARTICLE (a, an, —)

Note: You use “a” or “an” depending on *pronunciation* and not spelling, e.g. a unit, an x .

1. Instead of the number “one”:

The four centres lie in **a** plane.

A chapter will be devoted to the study of expanding maps.

For this, we introduce **an** auxiliary variable z .

2. Meaning “member of a class of objects”, “some”, “one of”:

Then D becomes **a** locally convex space with dual space D' .

The right-hand side of (4) is then **a** bounded function.

This is easily seen to be **an** equivalence relation.

Theorem 7 has been extended to **a** class of boundary value problems.

The transitivity is **a** consequence of the fact that

Let us now state **a** corollary of Lebesgue's theorem for

After **a** change of variable in the integral we get

We thus obtain the estimate with **a** constant C .

in the plural:

The existence of **partitions of unity** may be proved by

The definition of **distributions** implies that

....., with suitable constants.

....., where G and F are differential operators.

3. In definitions of classes of objects (i.e. when there are many objects with the given property):

A fundamental solution is **a** function satisfying

We call C **a** module of ellipticity.

A classical example of **a** constant C such that

We wish to find **a** solution of (6) which is of the form

in the plural:

The elements of D are often called **test functions**.

the set of

points with distance 1 from K
all functions with compact support

The integral may be approximated by sums of the form

Taking in (4) functions v which vanish in U we obtain

Let f and g be functions such that

4. In the plural—when you are referring to each element of a class:
 Direct sums exist in the category of abelian groups.
 In particular, closed sets are Borel sets.
 Borel measurable functions are often called Borel mappings.
 This makes it possible to apply H_2 -results to functions in any H_p .
If you are referring to all elements of a class, you use "the":
 The real measures form a subclass of the complex ones.
5. In front of an adjective which is intended to mean "having this particular quality":
 This map extends to all of M in an obvious fashion.
 A remarkable feature of the solution should be stressed.
 Section 1 | gives a condensed exposition of
 | describes in a unified manner the recent results
- A simple computation gives
 Combining (2) and (3) we obtain, with a new constant C ,
 A more general theory must be sought to account for these irregularities.
 The equation (3) has a unique solution g for every f .
But: (3) has the unique solution $g = ABf$.

DEFINITE ARTICLE (the)

1. Meaning "mentioned earlier", "that":
 Let $A \subset X$. If $aB = 0$ for every B intersecting the set A , then
 Define $\exp x = \sum x^i/i!$. The series can easily be shown to converge.
2. In front of a noun (possibly preceded by an adjective) referring to a single, uniquely determined object (e.g. in definitions):
 Let f be the linear form $\left. \begin{array}{l} g \rightarrow (g, F). \\ \text{defined by (2)}. \end{array} \right\}$ [If there is only one.]
 $u = 1$ in the compact set K of all points at distance 1 from L .
 We denote by $B(X)$ the Banach space of all linear operators in X .
, under the usual boundary conditions.
, with the natural definitions of addition and multiplication.
 Using the standard inner product we may identify
3. In the construction: the + property (or another characteristic) + of + object:
 The continuity of f follows from
 The existence of test functions is not evident.
 There is a fixed compact set containing the supports of all the f^j .
 Then x is the centre of an open ball U .
 The intersection of a decreasing family of such sets is convex.

But: Every nonempty open set in \mathbb{R}^k is a union of disjoint boxes.
 [If you wish to stress that it is some union of not too well specified objects.]

4. In front of a cardinal number if it embraces all objects considered:
 The two groups have been shown to have the same number of generators. [Two groups only were mentioned.]
 Each of the three products on the right of (4) satisfies
 [There are exactly 3 products there.]
5. In front of an ordinal number:
 The first Poisson integral in (4) converges to g .
 The second statement follows immediately from the first.
6. In front of surnames used attributively:
 the Dirichlet problem
 the Taylor expansion
 the Gauss theorem
But: $\left. \begin{array}{l} \text{Taylor's formula} \\ \text{[without "the"]} \\ \text{a Banach space} \end{array} \right\}$
7. In front of a noun in the plural if you are referring to a class of objects as a whole, and not to particular members of the class:
 The real measures form a subclass of the complex ones.
 This class includes the Helson sets.

ARTICLE OMISSION

1. In front of nouns referring to activities:
 Application of Definition 5.9 gives (45).
 Repeated application (use) of (4.8) shows that
 The last formula can be derived by direct consideration of
 A is the smallest possible extension in which differentiation is always possible.
 Using integration by parts we obtain
 If we apply induction to (4), we get
 Addition of (3) and (4) gives
 This reduces the solution to division by Px .
 Comparison of (5) and (6) shows that
 [Note: In constructions with "of" you can also use "the".]
2. In front of nouns referring to properties if you mention no particular object:
 In question of uniqueness one usually has to consider
 By continuity, (2) also holds when $f = 1$.
 By duality we easily obtain the following theorem.
 Here we do not require translation invariance.

3. After certain expressions with "of":

a type of convergence	the hypothesis of positivity
a problem of uniqueness	the method of proof
the condition of ellipticity	the point of increase

4. In front of numbered objects:

It follows from **Theorem 7** that

Section 4 gives a concise presentation of

Property (iii) is called the triangle inequality.

This has been proved in **part (a)** of the proof.

But: the set of solutions of **the** form (4.7)

To prove **the** estimate (5.3) we first extend

We thus obtain **the** inequality (3). [*Or:* inequality (3)]

The asymptotic formula (3.6) follows from

Since **the** region (2.9) is in U , we have

5. To avoid repetition:

the order and symbol of a distribution

the associativity and commutativity of A

the direct sum and direct product

the inner and outer factors of f [Note the plural.]

But: a deficit or **an** excess

6. In front of surnames in the possessive:

Minkowski's inequality, *but:* **the** Minkowski inequality

Fefferman and Stein's famous theorem,

more usual: the famous Fefferman-Stein theorem

7. In some expressions describing a noun, especially after "with" and "of":

an algebra **with** unit e ; an operator **with** domain H^2 ; a solution **with** vanishing Cauchy data; a cube **with** sides parallel to the axes; a domain **with** smooth boundary; an equation **with** constant coefficients; a function **with** compact support; random variables **with** zero expectation

the equation **of** motion; the velocity **of** propagation;

an element **of** finite order; a solution **of** polynomial growth;

a ball **of** radius 1; a function **of** norm p

But: elements **of the** form $f = \dots$

Let B be a Banach space with a weak symplectic form w .

Two random variables with a common distribution.

8. After "to have":

F has	finite norm.	<i>But:</i> F has	a finite norm not exceeding 1.
	compact support.		a compact support contained in I .

F has	rank 2. cardinality c . absolute value 1. determinant zero.	<i>But:</i> F has	a zero of order at least 2 at the origin. a density g . [Unless g has appeared earlier; then: F has density g .]
---------	--	---------------------	--

9. In expressions with "as":

Any random variable can be taken **as** coordinate variable on Y .

Here t is interpreted **as** area or volume.

We show that G is a group with composition **as** group operation.

But: G is well defined **as** the integral of f over U .

10. In front of the name of a mathematical discipline:

This idea comes from game theory (homological algebra).

But: in **the** theory of distributions

11. Other examples:

We can assume that G is **in** diagonal form.

Then A is deformed into B by pushing it **at** constant speed along the integral curves of X .

G is now viewed as a set, **without** group structure.

INFINITIVE

1. Indicating aim or intention:

To prove the theorem, we first let

We now apply (5)	to study the group of
	to derive the following theorem.
	to obtain an x with norm not exceeding 1.

Here are some examples **to** show how

2. In constructions with "too" and "enough":

This method is **too** complicated **to** be used here.

This case is important **enough** **to** be stated separately.

3. Indicating that one action leads to another one:

We now apply Theorem 7 **to** get $Nf = 0$. [= and we get $Nf = 0$]

Insert (2) into (3) **to** find that

4. In constructions like "we may assume M to be":

We may **assume** M **to** be compact.

We **define** K **to** be the section of H over S .

If we **take** the contour G **to** lie in U , then

We **extend** f **to** be homogeneous of degree 1.

The class A is defined by **requiring** all the functions f **to** satisfy

Partially order P by **declaring** $X < Y$ **to** mean that

5. In constructions like “ M is assumed to be”:

M is **assumed** (expected/found/considered/taken/
claimed) **to be open**.
 M will be **chosen to contain 0**.
 M can be **taken to be a constant**.
 M can easily be **shown to have** [Note: “easily” after “can”]
 M is also **found to be of class S** .

This investigation is **likely to produce** good results.

[= It is very probable it will]

The close agreement of the six elements is **unlikely to be**

a coincidence. [= is probably not]

6. In the structure “for this to happen”:

For this to happen, F must be compact.

[= In order that this happens]

For the last estimate to hold, it is enough to assume

Then **for such a map to exist**, we must have

7. As the subject of a sentence:

To see that this is not a symbol is fairly easy.

[Or: It is fairly easy to see that]]

To choose a point at random in the interval $[0, 1]$ is a conceptual experiment with an obvious intuitive meaning.

To say that u is maximal means simply that

After expressions with “it”:

It is necessary (useful/very important) **to consider**

It makes sense to speak of

It is therefore of interest to look at

8. After “be”:

Our goal (method/approach/procedure/objective/aim) **is to find**

The problem (difficulty) here **is to construct**

9. With nouns and with superlatives, in the place of a relative clause:

The theorem **to be proved** is the following. [= which will be proved]

This will be proved by the method **to be described** in Section 6.

For other reasons, **to be discussed** in Chapter 4, we have to

He was the **first to propose** a complete theory of

They appear to be the **first to have suggested** the now accepted interpretation of

10. After certain verbs:

These properties led him **to suggest** that

They **believe to have discovered**

Lax **claims to have obtained** a formula for

This map **turns out to satisfy**

At first glance M **appears to differ** from N in two major ways:

A more sophisticated argument **enables one to prove** that

[Note: “enable” requires “one”, “us” etc.]

He **proposed to study** that problem. [Or: He proposed studying]]

We **make G act** trivially on V .

Let f satisfy (2). [Not: “satisfies”]

We **need to consider** the following three cases.

We **need not consider** this case separately.

[“need to” in affirmative clauses, without “to” in negative clauses; also note: “we only need to consider”, but: “we need only consider”]

ING-FORM

1. As the subject of a sentence (note the absence of “the”):

Repeating the previous argument and **using** (3) leads to

Since **taking** symbols commutes with lifting, A is

Combining Proposition 5 and Theorem 7 gives

2. After prepositions:

After making a linear transformation, we may assume that

In passing from (2) to (3) we have ignored the factor n .

In deriving (4) we have made use of

On substituting (2) into (3) we obtain

Before making some other estimates, we prove

Z enters X **without meeting** $x = 0$.

Instead of using the Fourier method we can multiply

In addition to illustrating how our formulas work, it provides

Besides being very involved, this proof gives no information on

This set is obtained **by letting** $n \rightarrow \infty$.

It is important to pay attention to domains of definition

when trying to

The following theorem is the key **to constructing**

The reason **for preferring** (1) to (2) is simply that

3. In certain expressions with “of”:

The **idea of combining** (2) and (3) came from

The **problem considered** there was that of **determining** $WF(u)$ for

We use the **technique of extending**

This method has the **disadvantage of**

being very involved.
requiring that f be positive.
[Note the infinitive.]

Actually, S has the much stronger **property of being** convex.

4. After certain verbs, especially with prepositions:

We **begin by analyzing** (3).

We **succeeded** (were successful) **in proving** (4).

[Not: "succeeded to prove"]

We **next turn to estimating**

They **persisted in investigating** the case

We are **interested in finding** a solution of

We were **surprised at finding out** that

[Or: surprised to find out]

Their study **resulted in proving** the conjecture for

The success of our method will **depend on proving** that

To compute the norm of **amounts to finding**

We should **avoid using** (2) here, since

[Not: "avoid to use"]

We **put off discussing** this problem to Section 5.

It is **worth noting** that [Not: "worth to note"]

It is worth while discussing here this phenomenon.

[Or: worth while to discuss; "worth while" with ing-forms is best avoided as it often leads to errors.]

It is an idea **worth carrying out**.

[Not: "worth while carrying out", nor: "worth to carry out"]

After **having finished proving** (2), we will turn to

[Not: "finished to prove"]

(2) **needs handling** with greater care.

One more case **merits mentioning** here.

In [7] he **mentions having proved** this for f not in S .

5. Present Participle in a separate clause (note that the subjects of the main clause and the subordinate clause must be the same):

We show that f satisfies (2), thus **completing** the analogy with

Restricting this to R , we can define

[Not: "Restricting, the lemma follows". The lemma does not restrict!]

The set A , **being** the union of two continua, is connected.

6. Present Participle describing a noun:

We need only consider paths **starting** at 0.

We interpret f as a function with image **having** support in

We regard f as **being** defined on

7. In expressions which can be rephrased using "where" or "since":

J is defined to equal Af , the function f **being** as in (3).

[= where f is]]

This is a special case of (4), the space X here **being** $B(K)$.

We construct 3 maps of the form (5), each of them **satisfying** (8).

....., the limit **being assumed** to exist for every x .

The ideal is defined by $m = \dots$, it **being understood** that

F **being** continuous, we can assume that [= Since F is]]

..... (it **being impossible** to make A and B intersect)

[= since it is impossible]

[Do not write "a function being an element of X " if you mean

"a function which is an element of X ".]

8. In expressions which can be rephrased as "the fact that X is" :

Note that M **being** cyclic implies F is cyclic.

The probability of X **being** rational equals $1/2$.

In addition to f **being** convex, we require that

PASSIVE VOICE

1. Usual passive voice:

This theorem was proved by Milnor in 1976.

In items 2-6, passive voice structures replace sentences with subject "we" or impersonal constructions of other languages.

2. Replacing the structure "we do something":

This identity is **established** by observing that

This difficulty is **avoided** above.

When this is **substituted** in (3), an analogous description of K is obtained.

Nothing is **assumed** concerning the expectation of X .

3. Replacing the structure "we prove that X is":

M **is easily shown to have**
may be said to be regular if

This equation is **known to hold** for

4. Replacing the construction "we give an object X a structure Y ":

Note that E can be **given** a complex structure by

The letter A is here **given** a bar to indicate that

5. Replacing the structure "we act on something":

This order behaves well when g is **acted upon** by an operator.

F can be **thought of** as

So all the terms of (5) **are accounted for**.

This case is **met with** in diffraction problems.

The preceding observation, when **looked at** from a more general point of view, leads to

In the physical context already **referred to**, K is

6. Meaning “which will be (proved etc.)”:

Before stating the result to be proved, we give
 This is a special case of convolutions to be introduced in Chapter 8.
 We conclude with two simple lemmas to be used mainly in

QUANTIFIERS

This implies that A contains $\left\{ \begin{array}{l} \text{all open subsets of } U. \\ \text{all } y \text{ with } Gy = 1. \end{array} \right.$

Let B be the collection of $\left\{ \begin{array}{l} \text{all transforms } F \text{ of the form} \\ \text{all } A \text{ such that} \end{array} \right.$

F is defined at all points of X .
 for all $n \neq 0$; for all m which have; for all other m ;
 for all but a finite number of indices i

X contains all the boundary except the origin.
 The integral is taken over all of X .

E, F and G $\left\{ \begin{array}{l} \text{all extend to a neighbourhood of } U. \\ \text{all have their supports in } U. \\ \text{are all zero at } x. \\ \text{are all equal.} \end{array} \right.$

There exist functions R , all of whose poles are in U , with
 Each of the following 9 conditions implies all the others.
 Such an x exists iff all the intervals A_x have

For every g in X (not in X) there exists an N
 [But: for all f and g , for any two maps f and g ; “every”
 is followed by a singular noun.]

To every f there corresponds a unique g such that

Every invariant subspace of X is of the form
 [Do not write: “Every subspace is not of the form”
 if you mean: “No subspace is of the form”;
 “every” must be followed by an affirmative
 statement.]

Thus $f \neq 0$ at almost every point of X .

Since $A_n = 0$ for each n , [Each = every, considered separately]

Each term in this series is either 0 or 1.

F is bounded on each bounded set.

Each of these four integrals is finite.

These curves arise from, and each consists of

There remain four intervals of length 1/16 each.

X assumes values 0, 1, ..., 9, each with probability 1/10.

F_1, \dots, F_n are each defined in the interval $[0, 1]$.

Those n disjoint boxes are translates of each other.

If K is now any compact subset of H , there exists

[Any = whatever you like; write “for all x ”, “for every x ” if you
 just mean a quantifier.]

Every measure can be completed, so whenever it is convenient, we may
 assume that any given measure is complete.

There is a subsequence such that

There exists an x with

[Or: there exists x , but: there is an x]

There are sets satisfying (2) but not (3).

There is only one such f .

There is a unique function f such that

Each f lies in zA for some A (at least one A /
 exactly one A /at most one A).

Note that some of the X_n may be repeated.

F has no fixed vector (no pole) in U . [Or: no poles]

F has no limit point in U (hence none in K).

Call a set dense if its closure contains no nonempty open subset.

If no two members of A have an element in common, then

No two of the spaces X, Y , and Z are isomorphic.

It can be seen that no x has more than one inverse.

In other words, for no real x does $\lim F_n(x)$ exist.

[Note the inversion after the negative clause.]

If there is no bounded functional such that

..... provided none of the sums is of the form

Let A_n be a sequence of positive integers none of which is one less than
 a power of two.

If there is an f such that, we put, If there are (is) none, we
 define

None of these are (is) possible.

Both f and g are obtained by

[Or: f and g are both obtained]

For both C^∞ and analytical categories,

C behaves covariantly with respect to maps of both X and G .

We now apply (3) to both sides of (4).

Both (these/the) conditions are restrictions only on

[Note: “the” after “both”]

C lies on no segment both of whose endpoints are in K .

Two consecutive elements do not belong both to A

or both to B .

Both its sides are convex. [Or: Its sides are both convex.]

B and C are positive numbers, not both 0.

Choose points x in M and y in N , both close to z , and

We show how this method works in 2 cases. In both, C is

In **either** case, it is clear that [= In both cases]
 Each f can be expressed in **either** of the forms (1) and (2).
 [= in any of the two forms]
 The density of $X + Y$ is given by **either** of the two integrals.
 The two classes coincide if X is compact. In that case we write $C(X)$ for **either** of them.
Either f or g must be bounded.

Let u and v be two distributions **neither** of which is
 [Use “neither” when there are *two* alternatives.]
 This is true for **neither** of the two functions.
Neither statement is true.
 In **neither** case can f be smooth.
 [Note the inversion after a negative clause.]
 He proposes two conditions, but **neither** is satisfactory.

NUMBER, QUANTITY, SIZE

1. Cardinal numbers:

A and B are also F -functions, any **two** of A , B , and C being independent.

the multi-index with $\left\{ \begin{array}{l} \text{all entries } \mathbf{zero} \text{ except the } k\text{th which is } \mathbf{one} \\ \text{the last } k \text{ entries } \mathbf{zero} \end{array} \right.$

This shows that there are no **two** points a and b such that
 There are **three** that the reader must remember. [= three of them]
 We have defined A , B , and C , and **the three** sets satisfy
 For **the two** maps defined in Section 3,
 [“The” if only two maps are defined there.]
 R is concentrated at **the** n points x_1, \dots, x_n defined above.
 for **at least** (at most) one k ; with norm **at least equal to** 2

There are **at most 2 such** r in $(0, 1)$.
 There is **a unique** map satisfying (4).
 (4) has **a unique** solution g for each f .
But: (4) has **the unique** solution $g = ABf$.
 (4) has **one and only one** solution.
Precisely r of the intervals are closed.
 In Example 3 only **one** of the x_j is positive.
 If $p = 0$ then there are **an additional** m arcs.

2. Ordinal numbers:

The first two are simpler than **the third**.
 Let S_i be **the first** of the remaining S_j .
The n th trial is the last.
 X_1 appears at **the** $(k + 1)$ th place.

The gain **up to and including** the n th trial is
 The elements of **the third and fourth** rows are in I .
 [Note the plural.]
 F has a zero of **at least third** order at x .

3. Fractions:

Two-thirds of its diameter is covered by
But: **Two-thirds** of the gamblers are ruined.
 G is **half** the sum of the positive roots.
 [Note: Only “half” can be used with or without “of”.]
 On the average, about **half** the list will be tested.
 J contains an interval of **half** its length in which

F is greater by **a half** (a third).
 The other player is half (**one third**) as fast.
 We divide J in **half**.
 All sides were increased by the same **proportion**.
 About **40 percent** of the energy is dissipated.
 A positive **percentage** of summands occurs in all the k partitions.

4. Smaller (greater) than:

n is $\left\{ \begin{array}{l} \text{greater (less) than } k. \\ \text{much (substantially) greater than } k. \\ \text{no greater (smaller) than } k. \\ \text{greater (less) than or equal to } k. \\ \text{[Not: “greater or equal to”]} \\ \text{strictly less than } k. \end{array} \right.$

All points at a distance **less than** K from A satisfy (2).
 We thus obtain a graph of **no more than** k edges.

This set has $\left\{ \begin{array}{l} \text{fewer elements than } K \text{ has.} \\ \text{no fewer than twenty elements.} \end{array} \right.$

F can have no jumps **exceeding** $1/4$.
 The degree of P **exceeds** that of Q .
 Find the density of **the smaller** of X and Y .
The smaller of the two satisfies
 F is dominated (**bounded/estimated/majorized**) by

5. How much smaller (greater):

25 is **3 greater** than 22. 22 is **3 less** than 25.
 Let a_n be a sequence of positive integers none of which is **one less** than a power of two.
 The degree of P **exceeds** that of Q by **at least** 2.
 f is **greater by a half** (a third).
 C is **less than a third** of the distance between

Within I , the function f **varies** (oscillates)
by **less than** l .

The upper and lower limits of f **differ by at most** 1.

We thus have in A **one** element **too many**.

On applying this argument k **more times**, we obtain

This method is recently **less and less** used.

A succession of **more and more** refined discrete models.

6. How many times as great:

twice (ten times/one third) **as long as**; half as big as

The longest edge is at most 10 times as long as the shortest one.

A has **twice as many** elements as B has.

J contains a subinterval of **half its length** in which

A has four times the radius of B .

The diameter of L is $1/k$ times (**twice**) **that of** M .

7. Multiples:

The k -fold integration by parts shows that

F covers M **twofold**.

M is bounded by a **multiple of** t (a constant times t).

This distance is less than a constant **multiple of** d .

G acts on H as a **multiple**, say n , of V .

8. Most, least, greatest, smallest:

F has **the most** (the fewest) points when

In **most** cases it turns out that

Most of the theorems presented here are original.

The proofs are, **for the most part**, only sketched.

Most probably, his method will prove useful in

What **most** interests us is whether ...

The **least** such constant is called the norm of f .

This is **the least** useful of the four theorems.

The method described above seems to be **the least** complex.

That is **the least** one can expect.

The elements of A are comparatively big, but **least** in number.

None of those proofs is easy, and John's **least of all**.

The best estimator is a linear combination U such that
var U is **smallest possible**.

The expected waiting time is **smallest** if

L is **the smallest number** such that

F has **the smallest** norm among all f such that

K is **the largest of** the functions which occur in (3).

There exists a **smallest** algebra with this property.

Find the **second largest** element in the list L .

9. Many, few, a number of:

There are [Note the plural.]		a large number of illustrations.
		only a finite number of f with $Lf = 1$.
		a small number of exceptions.
		an infinite number of sets
		a negligible number of points with

Ind c is **the number of times** that c winds around 0.

We give a **number of** results concerning

This may happen in a **number of** cases.

They correspond to the values of a **countable number of** invariants.

..... for all n **except a finite number** (for all but finitely many n).

Q contains **all but a countable number of** the f^i .

There are only **countably many** elements q of Q with $\text{dom } q = S$.

The theorem is fairly general. There are, however, **numerous**
exceptions.

A **variety of** other characteristic functions can be constructed in this
way.

There are **few** exceptions to this rule. [= not many]

Few of various existing proofs are constructive.

He accounts for all the major achievements in topology
over **the last few** years.

The generally accepted point of view in this domain of
science seems to be changing **every few** years.

There are a **few** exceptions to this rule. [= some]

Many interesting examples are known. We now describe
a **few of** these.

Only a **few of** those results have been published before.

Quite a few of them are now widely used.

[= A considerable number]

10. Equality, difference:

A equals B or A is equal to B [Not: " A is equal B "]

The Laplacian of g is $4r > 0$. Then r is about kn .

The inverse of FG is GF . The norms of f and g coincide.

F has the same number of zeros and poles in U .

F and G **differ by** a linear term (by a scale factor).

The differential of f is **different from** 0.

Each member of G **other than** the identity mapping
is

F is not identically 0.

Let a , b and c be **distinct** complex numbers.

Each w is Pz for precisely m distinct values of z .

Functions which are equal a.e. are indistinguishable as far as integration is concerned.

11. Numbering:

Exercises 2 to 5 furnish other applications of this technique.

[*Amer.*: Exercises 2 through 5]

in the third and fourth rows the derivatives up to order k
 from line 16 onwards the odd-numbered terms
 in lines 16–19
 the next-to-last column
 the last paragraph but one of the previous proof

The matrix with $\begin{cases} 1 \text{ in the } (i, j) \text{ entry and zero elsewhere} \\ \text{all entries zero except for } N - j \text{ at } (N, j) \end{cases}$

This is $\begin{cases} \text{hinted at in Sections 1 and 2.} \\ \text{quoted on page 36 of [4].} \end{cases}$

HOW TO AVOID REPETITION

1. Repetition of nouns:

Note that the continuity of f implies **that** of g .
 The passage from Riemann's theory to **that** of Lebesgue is
 The diameter of F is about twice **that** of G .
 His method is similar to **that** used in our previous paper.
 The nature of this singularity is the same as **that** which f has at $x = 0$.

Our results do not follow from **those** obtained by Lax.

One can check that the metric on T is **the one** we have just described.
 It follows that S is the union of two disks. Let D be **the one** that contains

The cases $p = 1$ and $p = 2$ will be **the ones** of interest to us.
 We prove a uniqueness result, similar to **those** of the preceding section.

Each of the functions on the right of (2) is **one**
 to which

F has many points of continuity. Suppose x is **one**.
 In addition to a contribution to W_1 , there may be **one**
 to W_2 .

We now prove that the constant pq cannot be replaced by a smaller **one**.

Consider the differences between these integrals and **the**
 corresponding **ones** with f in place of g .

The geodesics (4) are **the only ones** that realize the distance between their endpoints.

On account of the estimate (2) and similar **ones** which can be

We may replace A and B by whichever is the larger of **the two**.
 [*Not*: "the two ones"]

This inequality applies to conditional expectations as well as to ordinary **ones**.

One has to examine the equations (4). If **these** have no solutions, then

D yields operators D^+ and D^- . **These** are formal adjoints of each other.

This gives rise to the maps F_i . All the other maps are suspensions of **these**.

F is the sum of A , B , C and D . The last two of **these** are zero.

Both f and g are connected, but **the latter** is in addition compact.
 [The latter = the second of *two* objects]

Both AF and BF were first considered by Banach, but only **the former** is referred to as the Banach map, **the latter** being called the Hausdorff map.

We have thus proved Theorems 1 and 2, **the latter** without using

Since the vectors G_i are orthogonal to **this last** space,

As a consequence of **this last** result,

Let us consider sets of the type (1), (2), (3) and (4).

These last two are called

We shall now describe a general situation in which **the last-mentioned** functionals occur naturally.

2. Repetition of adjectives, adverbs or phrases like "x is":

If f and g are measurable functions, then **so are** $f + g$ and $f \cdot g$.

The union of measurable sets is a measurable set; **so is** the complement of every measurable set.

The group G is compact and **so is** its image under f .

It is of the same fundamental importance in analysis **as is** the construction of

F is bounded but **is not necessarily so** after division by G .

Show that there are many **such** Y .

There is only one **such** series for each y .

Such an h is obtained by

3. Repetition of verbs:

A geodesic which meets bM **does so** either transversally or

This will hold for $x > 0$ if it **does** for $x = 0$.

Note that we have not required that, and we shall not **do so** except when explicitly stated.

The integral might not converge, but it **does so** after

We will show below that the wave equation can be put in this form,
as can many other systems of equations.

The elements of L are not in S , **as they are** in the proof of

4. Repetition of whole sentences:

The same is true for f in place of g .

The same being true for f , we can

The same holds for \langle applies to \rangle the adjoint map.

We shall assume that **this is the case**.

Such was the case in (2).

The L^2 theory has more symmetry **than is the case**
in L^1 .

Then either or **In the latter** \langle former \rangle case,

For k **this is no longer true**.

This is not true of (2).

This is not so in other queuing processes.

If **this is so**, we may add

If $f_i \in L$ and if $F = f_1 + \dots + f_n$ then $F \in H$, and every
 F is so obtained.

We would like to

If U is open, **this can be done**.

On S , **this** gives the ordinary topology of the plane.

Note that **this** is not equivalent to

[Note the difference between “this” and “it”: you say “it is
not equivalent to” if you are referring to some object ex-
plicitly mentioned in the preceding sentence.]

F has the stated \langle desired/claimed \rangle properties.

WORD ORDER

General remarks: The normal order is: subject + verb + direct object + adverbs in
the order manner-place-time.

Adverbial clauses can also be placed at the beginning of a sentence, and some adverbs
always come between subject and verb. Subject almost always precedes verb,
except in questions and some negative clauses.

1. ADVERBS

1a. Between subject and verb, but after “be”; in compound tenses after
first auxiliary

• Frequency adverbs:

This has **already** been proved in Section 8.

This result will **now** be derived computationally.

Every measurable subset of X is **again** a measure space.

We **first** prove a reduced form of the theorem.

There has **since** been little systematic work on

It has **recently** been pointed out by Fix that

It is **sometimes** difficult to

This **usually** implies further conclusions about f .

It **often** does not matter whether

• Adverbs like “also”, “therefore”, “thus”:

Our presentation is **therefore** organized in such a way that

The sum in (2), though formally infinite, is **therefore** actually finite.

One must **therefore** also introduce the class of

C is connected and is **therefore** not the union of

These properties, with the exception of (1), **also** hold
for t .

We will **also** leave to the reader the verification that

It will **thus** be sufficient to prove that

(2) implies (3), since one would **otherwise** obtain $k = 0$.

The order of several topics has **accordingly** been changed.

• Emphatic adverbs (clearly, obviously, etc.):

It would **clearly** have been sufficient to assume that

F is **clearly** not an I -set.

Its restriction to N is **obviously** just f .

This case must **of course** be excluded.

The theorem **evidently** also holds if $x = 0$.

The crucial assumption is that the past history **in no**
way influences

We did **not really** have to use the existence of T .

The problem is to decide whether (2) **really** follows
from (1).

The proof is now **easily** completed.

The maximum is **actually** attained at some point of M .

We then **actually** have

[= We have even more]

At present we will **merely** show that

A stronger result is **in fact** true.

Throughout integration theory, one **inevitably** encounters ∞ .

But H itself can **equally well** be a member of S .

1b. After verb—most adverbs of manner:

We conclude **similarly** that

One sees **immediately** that

Much relevant information can be obtained **directly** from (3).

This difficulty disappears **entirely** if

This method was used **implicitly** in random walks.

1c. After an object if it is short:

We will prove the theorem **directly** without using the lemma.

But: We will prove **directly** a theorem stating that

This is true for every sequence that shrinks to x **nicely**.

Define Fg **analogously** as the limit of

(2) defines g **unambiguously** for every g' .

1d. At the beginning—adverbs referring to the whole sentence:

Incidentally, we have now constructed

Actually, Theorem 3 gives more, namely

Finally, (2) shows that $f = g$. [*Not:* “At last”]

Nevertheless, it turns out that

Next, let V be the vector space of

More precisely, Q consists of

Explicitly (**Intuitively**), this means that

Needless to say, the boundedness of f was assumed only for simplicity.

Accordingly, either f is asymptotically dense or

1e. In front of adjectives—adverbs describing them:

a **slowly varying** function

probabilistically significant problems

a method **better suited** for dealing with

F and G are **similarly obtained** from H .

F has a **rectangularly shaped** graph.

Three-quarters of this area is covered by **subsequently chosen** cubes. [Note the singular.]

1f. “only”

We need the openness **only** to prove the following.

It reduces to the statement that **only** for the distribution F do the maps F_i satisfy (2). [Note the inversion.]

In this chapter we will be concerned **only** with

In (3) the X_j assume the values 0 and 1 **only**.

If (iii) is required for finite unions **only**, then

We need **only** require (5) to hold for bounded sets.

The proof of (2) is similar, and will **only** be indicated briefly.

To prove (3), it **only** remains to verify

2. ADVERBIAL CLAUSES

2a. At the beginning:

In testing the character of, it is sometimes difficult to

For $n = 1, 2, \dots$, consider a family of

2b. At the end (normal position):

The averages of F_n become small **in small neighbourhoods** of x .

2c. Between subject and verb, but after first auxiliary—only short clauses:

The observed values of X will **on the average** cluster around

This could **in principle** imply an advantage.

For simplicity, we will **for the time being** accept as F only C^2 maps.

Accordingly we are **in effect** dealing with

The knowledge of f is **at best** equivalent to

The stronger result is **in fact** true.

It is **in all respects** similar to matrix multiplication.

2d. Between verb and object if the latter is long:

It suffices **for our purposes** to assume

To a given density on the line there corresponds **on the circle** the density given by

3. INVERSION AND OTHER PECULIARITIES

3a. Adjective or past participle after a noun:

Let Y be the complex X with the origin **removed**.

Theorems 1 and 2 **combined** give a theorem

We now show that G is in the symbol class **indicated**.

We conclude by the part of the theorem **already proved** that

The bilinear form **so defined** extends to

Then for A **sufficiently small** we have

By queue length we mean the number of customers **present** including the customer **being served**.

The description is the same with the roles of A and B **reversed**.

3b. Direct object or adjectival clause placed farther than usual—when they are long:

We must **add** to the right side of (3) **the probability** that

This is equivalent to **defining** in the z -plane a **density** with

Denote for the moment by f **the element** satisfying

F is the **restriction** to D of the unique linear map

The **probability** at birth of a lifetime exceeding t is at most

3c. Inversion in some negative clauses:

We do not assume that, **nor do** we assume a priori that

Neither is the problem simplified by assuming $f = g$.

The “if” part now follows from (3), since **at no point can** S exceed the larger of X and Y .

The fact that **for no** x does Fx contain y implies that

In no case does the absence of a reference imply any claim to originality on my part.

3d. Inversion—other examples:

F is compact and so is G .

If f, g are measurable, then so are $f + g$ and $f \cdot g$.

Only for $f = 1$ | can one expect to obtain
| does that limit exist.

3e. Adjective in front of "be"—for emphasis:

By far the most important is the case where

Much more subtle are the following results of John.

Essential to the proof are certain topological properties of M .

3f. Subject coming sooner than in some other languages:

Equality occurs in (1) iff f is constant.

The natural question arises whether it is possible to

In the following applications use will be made of

Recently proofs have been constructed which use

3g. Incomplete clause at the beginning or end of a sentence:

Put differently, the moments of arrival of the lucky customers constitute a renewal process.

Rather than discuss this in full generality, let us look at

It is important that the tails of F and G are of comparable magnitude, a statement made more precise by the following inequalities.

WHERE TO INSERT A COMMA

General rules: Do not over-use commas—English usage requires them less often than in many other languages. Do not use commas around a clause that defines (limits, makes more precise) some part of a sentence. Put commas before and after non-defining clauses (i.e. ones which can be left out without damage to the sense). Put a comma where its lack may lead to ambiguity, e.g. between two symbols.

1. Comma not required:

We shall now prove that f is proper.

The fact that f has radial limits was proved in [4].

It is reasonable to ask whether this holds for $g = 1$.

M is the set of all maps which take values in V .

There is a polynomial P such that $Pf = g$.

The element given by (3) is of the form (5).

Let M be the manifold to whose boundary f maps K .

Take an element all of whose powers are in S .

F is called proper if G is dense.

There exists a D such that $DxyH$ whenever $HxyG$.

$$F(x) = G(x) \text{ for all } x \in X.$$

Let F be a nontrivial continuous linear operator in V .

2. Comma required:

The proof of (3) depends on the notion of M -space, which has already been used in [4].

We will use the map H , which has all the properties required.

There is only one such f , and (4) defines a map from

In fact, we can do even better.

In this section, however, we will not use it explicitly.

Moreover, F is countably additive.

Finally, (d) and (e) are consequences of (4).

Nevertheless, he succeeded in proving that

Conversely, suppose that

Consequently, (2) takes the form

In particular, f also satisfies (1).

Guidance is also given, whenever necessary or helpful, on further reading.

This observation, when looked at from a more general point of view, leads to

It follows that f , being convex, cannot satisfy (3).

If $e = 1$, which we may assume, then

We can assume, by decreasing k if necessary, that

Then (5) shows, by Fubini's theorem, that

Put this way, the question is not precise enough.

Being open, V is a union of disjoint boxes.

This is a special case of (4), the space X here being $B(K)$.

In [2], X is assumed to be compact.

For all x , $G(x)$ is convex.

[Comma between two symbols.]

In the context already referred to, K is the complex field.

[Comma to avoid ambiguity.]

3. Comma optional:

By Theorem 2, there exists an h such that

For z near 0, we have

If h is smooth, then M is compact.

Since h is smooth, M is compact.

It is possible to use (4) here, but it seems preferable to

This gives (3), because (since) we may assume

Integrating by parts, we obtain

To do this, put

$X, Y,$ and Z are compact.
 $X = FG,$ where F is defined by
 Thus (Hence/Therefore), we have

SOME TYPICAL ERRORS

1. Spelling errors:

Spelling should be consistent, either British or American throughout:

Br.: colour, neighbour, centre, fibre, labelled, modelling

Amer.: color, neighbor, center, fiber, labeled, modeling

an unified approach \rightsquigarrow a unified approach

a M such that \rightsquigarrow an M such that

[Use "a" or "an" according to pronunciation.]

2. Grammatical errors:

Let f denotes \rightsquigarrow Let f denote

Most of them is \rightsquigarrow Most of them are

There is a finite number of \rightsquigarrow There are a finite number of

In 1964 Lax has shown \rightsquigarrow In 1964 Lax showed

[Use the past tense if a date is given.]

The Taylor's formula \rightsquigarrow Taylor's formula [Or: the Taylor formula]

The section 1 \rightsquigarrow Section 1

Such map exists \rightsquigarrow Such a map exists [But: for every such map]

In the case M is compact \rightsquigarrow In case M is compact

[Or: In the case where M is compact]

In case of smooth norms \rightsquigarrow In the case of smooth norms

We are in the position to prove \rightsquigarrow We are in a position to prove

F is equal G \rightsquigarrow F is equal to G [Or: F equals G]

F is greater or equal to G \rightsquigarrow F is greater than or equal to G

Continuous in the point x \rightsquigarrow Continuous at x

Disjoint with B \rightsquigarrow Disjoint from B

Equivalent with B \rightsquigarrow Equivalent to B

Independent on B \rightsquigarrow Independent of B

[But: depending on B]

Similar as B \rightsquigarrow Similar to B

Similarly as in Sec. 2 \rightsquigarrow

Similarly to Sec. 2
As (Just as) in Sec. 2
As is the case in Sec. 2
In much the same way as
in Sec. 2

On Fig. 3 \rightsquigarrow In Fig. 3

In the end of Sec. 2 \rightsquigarrow At the end of Sec. 2

Since $f = 0$ then M is closed \rightsquigarrow Since $f = 0, M$ is closed

[Or: Since $f=0,$ we conclude that M is closed]

....., as it is shown in Sec. 2 \rightsquigarrow , as is shown in Sec. 2

Every function being an element of X is convex

\rightsquigarrow Every function which is an element of X is convex

Setting $n = p,$ the equation can be

\rightsquigarrow Setting $n = p,$ we can [Because we set.]

3. Wrong word used:

We now give few examples [= not many]

\rightsquigarrow We now give a few examples [= some]

Summing (2) and (3) by sides \rightsquigarrow Summing (2) and (3)

In the first paragraph \rightsquigarrow In the first section

....., which proves our thesis

\rightsquigarrow , which proves our assertion (conclusion/statement)

[thesis = dissertation]

For n big enough \rightsquigarrow For n large enough

To this aim \rightsquigarrow To this end

At first, note that \rightsquigarrow First, note that

At last, we obtain \rightsquigarrow Finally, we obtain

For every two elements \rightsquigarrow For any two elements

....., what completes the proof \rightsquigarrow , which completes the proof

....., what is impossible \rightsquigarrow , which is impossible

4. Wrong word order:

The described above condition \rightsquigarrow The condition described above

The both conditions \rightsquigarrow Both conditions, Both the conditions

Its both sides \rightsquigarrow Both its sides

The three first rows \rightsquigarrow The first three rows

The two following sets \rightsquigarrow The following two sets

This map we denote by f \rightsquigarrow We denote this map by f

5. Other examples:

We have (obtain) that B is

\rightsquigarrow We see (conclude/deduce/find/infer) that B is

We are done \rightsquigarrow The proof is complete.

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