CMPE220

LaTeX Homework Guide

Motivation

- This document aims to explain the LaTeX homework process.

- Throughout this course, you will be given a series of LaTeX assignments.

- In each homework, you will be assigned one or more pages from a particular book.

- Your duty is writing LaTeX code for the pages you are given.

Book(s)

- The book is *Freshman CALCULUS* and written by B. Süer & H. Demir.

- The book is separated into two books: Book-1 and Book-2.

- Each book is separated into two volumes: Part-1 and Part-2

- <u>Now take your time</u> and have a <u>detailed look</u> at the cover pages on the next slide.

```
                    ┌─────────────────────┐
                    │   Suer & Demir      │
                    │ Freshman CALCULUS   │
                    └─────────────────────┘
                      ↙                 ↘
            ┌──────────┐            ┌──────────┐
            │  Book    │            │  Book    │
            │  One     │            │  Two     │
            └──────────┘            └──────────┘
             ↙        ↘              ↙        ↘
      ┌──────────┐ ┌──────────┐ ┌──────────┐ ┌──────────┐
      │ part one │ │ part two │ │ part one │ │ part two │
      └──────────┘ └──────────┘ └──────────┘ └──────────┘
```
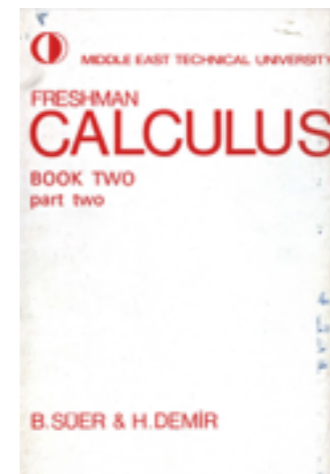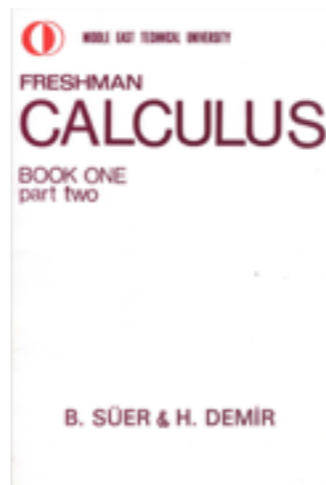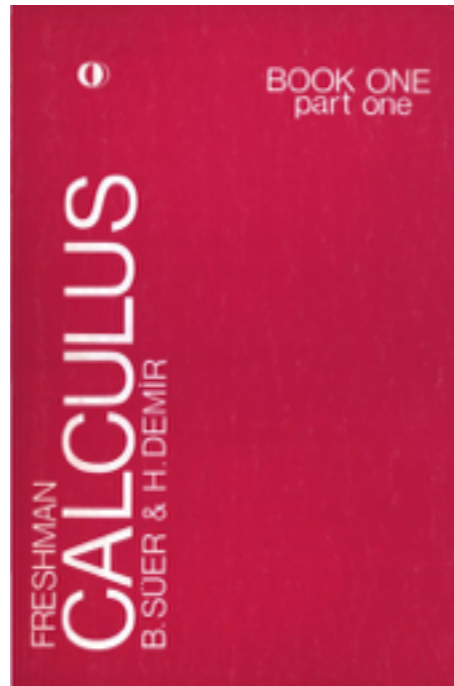
BOOK ONE part one

FRESHMAN
CALCULUS
B. SÜER & H. DEMİR

BOOK ONE
part one

BOOK TWO part one

FRESHMAN
CALCULUS
BOOK TWO
part one

B.SÜER & H.DEMİR

BOOK ONE part two

MIDDLE EAST TECHNICAL UNIVERSITY
FRESHMAN
CALCULUS
BOOK ONE
part two

B. SÜER & H. DEMİR

BOOK TWO part two

MIDDLE EAST TECHNICAL UNIVERSITY
FRESHMAN
CALCULUS
BOOK TWO
part two

B.SÜER & H.DEMİR
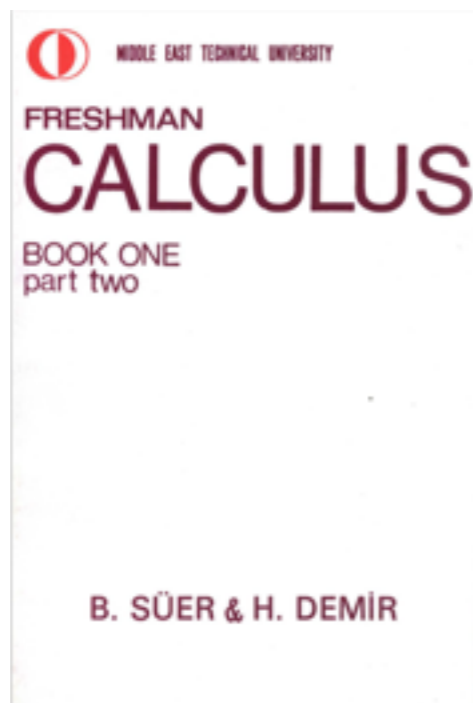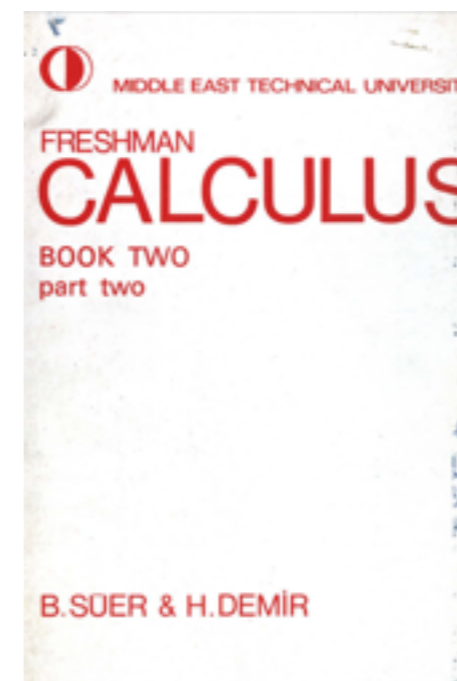
Page Numbers

- Each book (*BOOK ONE* and *BOOK TWO*) is actually a single book, published as two parts. (*part one* and *part two*)

- In other words, *part one* and *part two* has continues page numbers.

- **Example:** In *BOOK ONE*, last page of *part one* is 232 and first page of *part two* is 235. (233 and 234 on *part one* is intentionally left blank.)

- **Example-2:** In *BOOK TWO*, last page of *part one* is 263 and first page of *part two* is 265. (264 on *part one* is intentionally left blank.)

Page Numbers - Cont'd

- When we mention a *page number*,
  we refer to the page number
 written on the page itself. See the image —>
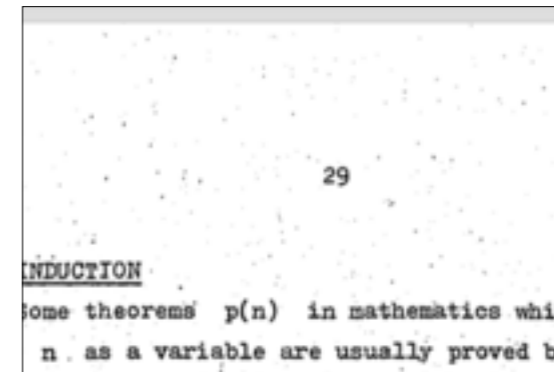
- **Important:** Please do NOT take your PDF reader's (Adobe Reader or Mac OS X Preview) page number into consideration, because it also counts cover page, inner cover page and contents pages.

- Working on wrong *page numbers* is the **most common mistake** in LaTeX homeworks in the past.

- Now take your time to comprehend the examples on the next slide.
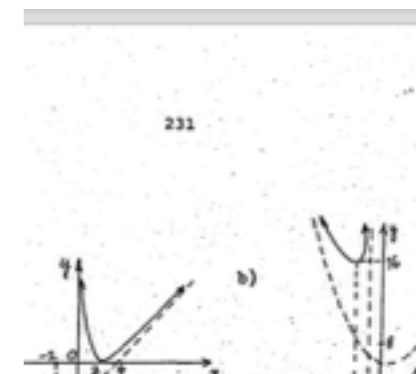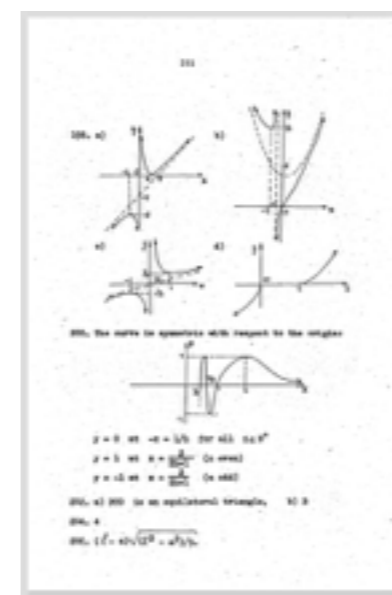
Examples-1 - BOOK ONE part one
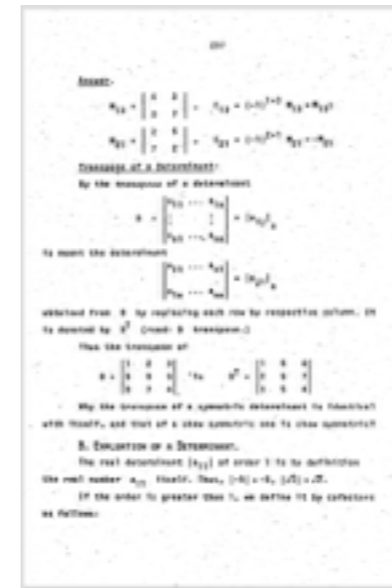
page 1

page 2
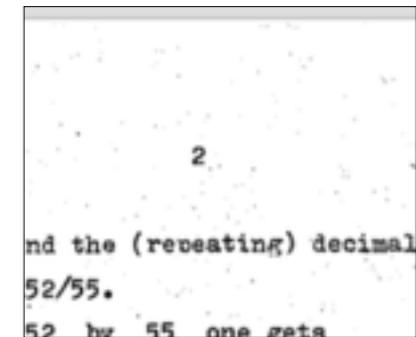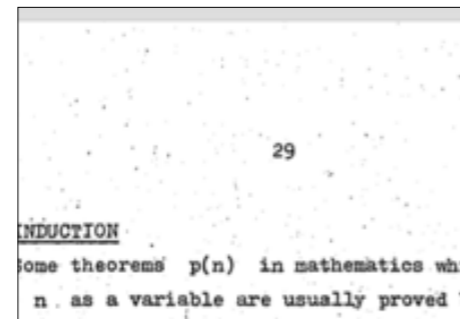
page 29

page 231
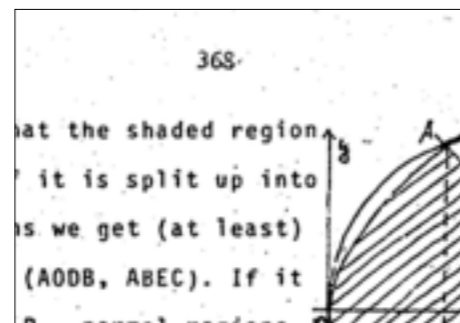
Examples-2 - BOOK ONE part two

page 235

page 237

237

$$= \begin{vmatrix} 4 & 3 \\ 0 & 7 \end{vmatrix} \cdot C_{13} = (-1)^{1+3} M_1$$

$$= \begin{vmatrix} 2 & 5 \\ 7 & 2 \end{vmatrix} \cdot C_{21} = (-1)^{2+1} M_2$$

page 368

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at the shaded region

it is split up into

s we get (at least)

(AODB, ABEC). If it
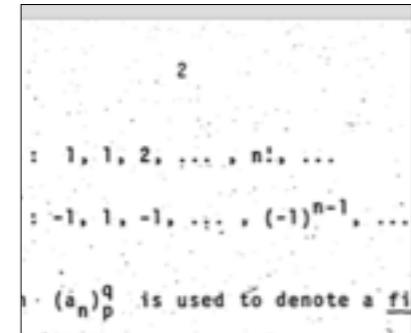
page 519

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inant

$$= \begin{vmatrix} H(-1) & -G(-1) \\ G(-1) & H(-1) \end{vmatrix} = H^2(-1)$$
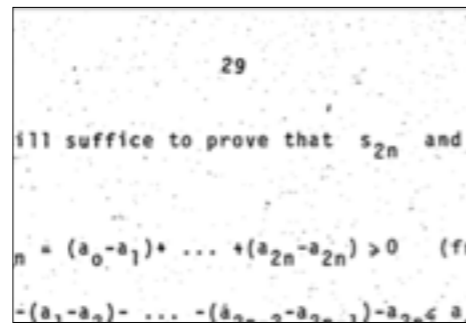
Examples-3 - BOOK TWO part one

page 1

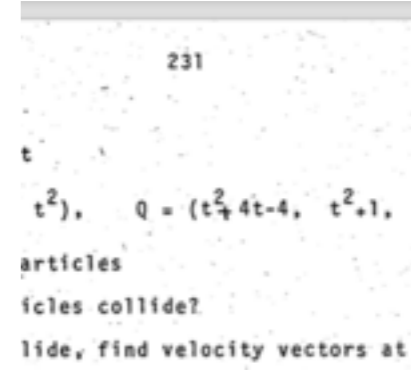## page 2

page 29
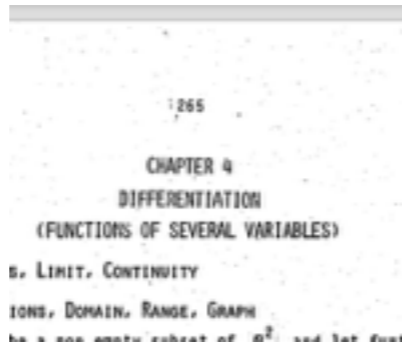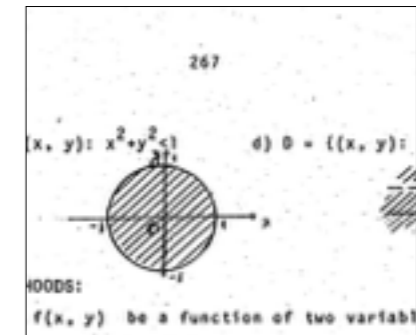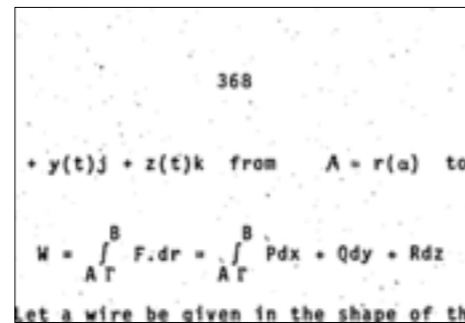
page 231

Examples-4 - BOOK TWO part two

page 265

CHAPTER 4
DIFFERENTIATION
(FUNCTIONS OF SEVERAL VARIABLES)

B. LIMIT, CONTINUITY

IONS, DOMAIN, RANGE, GRAPH

page 267

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$[x, y]: x^2 + y^2 < 1$ d) D = {(x, y):

HOODS:

$f(x, y)$ be a function of two variabl

page 368

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$+ y(t)j + z(t)k$ from $A = r(\alpha)$ to

$$W = \int_A^B F.dr = \int_A^B Pdx + Qdy + Rdz$$

Let a wire be given in the shape of th

page 501

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c/p^2, $y = -p^2/3 + 2c/p$

; $y = cx - c^2 + 1$,   b) $xe^{y+1} + 1 = 0$; y

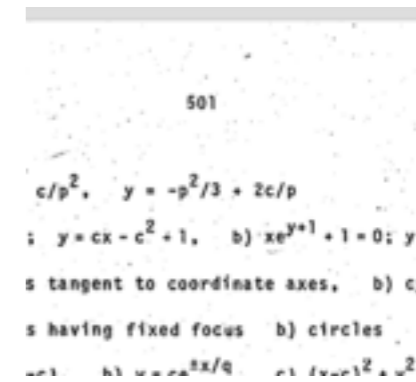s tangent to coordinate axes,   b) c

s having fixed focus   b) circles

- Please review examples one more time to prevent any further mistakes caused by page numbers.