

Suggested Homework

Just do as many problems as you need until you are sure you understand the material and can work similar problems under the strain of an examination. I have listed more problems than you should need to do. Note that some were done in class but you can try them yourself.

Chapter One

Section 1

#9 (of very minor importance)

Section 2

All (some mentally)

Section 3

Nothing

Section 4

#1, #4, #6 (just a_n, S_n)

Section 5

#1-#10 (mentally)

Section 6

#7, #15*, #18-#23, #27, #31-#36

Section 7

#1-#8

Section 8

Read this at least once.

Section 9

All (any)

Section 10

All of #1-#18, #19, some of #20-#23

Sections 11-13

#1 and then some from Section 13.

Chapter Four

Section 8

#3-#10, #14-16

Section 9

#3-#8, #11-#12

Section 10

All (any)

Section 12

#11, #13 (Of minor importance)

Chapter Five

Section 2

Lots of similar review problems.
Maybe #17, #21, #31, #43, #49
just because I looked at them.

Section 3

Just for fun, please do problem #31.

Many of the problems require lengthy computations. That's just characteristic of these types of problems. It took me a whole page to do #7. #9 looks even longer. #11 isn't too bad, either.

Section 4

Again, many problems are long with lots of computational steps. I think #1, #11, and #14 maybe easy enough to be worth doing. I'll try to do a couple in class.

Section 5

Here the problems are actually very easy with just a little computation. However, the geometry can be hard. **Draw the picture!**

#1, #3, #5, and #9 have answers in the back of the book. #7 and #11 are no harder.

The test is soon so definitely try these to get practice and have the one formula memorized.

Examination 1

Chapter Six

Section 3

#3, #9

Section 4

#2

Section 6

#2, #4, #6, #9

Section 7

#1, #6, #8, #10, #11, #13, #16, #19

Section 8

#2, #4, #9, #11, #17

Section 9

#3, #4, #10, #12

Section 10

#2, #4, #5, #7, #9

Section 11

#3, #6, #10, #12, #15

Section 12 (Review)

Torque (6-9): #7

Directional Derivatives, Tangent Plane, Normal Line (10-14): #11

Conservative (15-19): #18

Divergence or Stokes' Theorem (20-31): #21, #23

Examination 2

Chapter Two

Section 4

#3, #9, #14

Section 5

#6, #10, #14

#26, #32

#45, #46

#57, #62

Section 6

#4, #10

Section 7

#6, #12

Section 9

#11, #17, #24

Section 10

#7, #22

Section 11

#5

Section 14

#5, #14

Chapter Fourteen

Section 2

#9, #19, NOTE: #55 \Leftarrow Added later

Section 3

#3, #7, #12, #19, #23*

Section 4

#6, #9

Section 6

#3, #9, #16, #21

Section 7

#3, #11
