

MATH 121: HOMEWORK #5

SECTIONS 5.3, 5.4, 5.6, 7.1, 7.2, 7.3

FALL 2003

Write your name and clearly separate sections on your homework!
You may want to photocopy this, especially if you plan to take Math 122!
(Chapter 7 is also covered in Math 122.)

Show work where appropriate, and use "good form and procedure," as in class!

This is due when you take the Final.

Graded out of 10 points.

"*" denotes "See Hint below."

Read some of the Examples for additional assistance.

5.3: 1, 9, 19-31 odd*, 47-61 odd, 75, 80*, 88*

You only need to make sketches for 19, 21, and 23.

Answer to 80: 67.6 pounds

Answer to 88: About 23.14 million marriages

Look at pp.341-342.

Look at 77. A nice "challenge" problem! This really tests your geometry.

5.4: 1, 5, 9, 13, 17, 25, 29, 33, 35, 37, 41, 43, 45, 52*, 53, 55, 57*

Answer to 52: a) About \$1.375 million; b) Yes.

Hint on 57: Use the formula $MP(x) = MR(x) - MC(x)$.

5.5: Skip. (If you're an economics major, you may be interested in this.)

5.6: 13-45 odd, 51a, 55a, 57a, 65, 67, 73, 75

7.1: 1, 2, 3, 5, 9, 11, 13, 19, 24*, 33, 35

Answer to 24: About 82.35

Read pp.502-504.

Look at 23, 31

7.2: 1, 7, 11, 13, 15*, 17, 21-31 odd, 35-43 odd, 45, 49, 55

Hint on 15: It helps to use a log property first.

7.3: 1-9 odd, 17, 19, **Look at** 23