

MATH 121: HOMEWORK #3

SECTIONS 3.1, 3.2, 3.3, 3.6

FALL 2003

Write your name and clearly separate sections on your homework!

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

This is due when you take Quiz 3.

Graded out of 10 points.

“*” denotes “See Hint below.”

Read some of the Examples in this chapter for additional assistance.

3.1: 1-21 odd, 41 (only find the critical number(s) for 41), 57

3.2: 1-15 odd, 19, 21, 23, 25, 47, 59, 60

3.3: 1-13 odd, 14*, 15, 23, 27, 29, 30*, 31, 33*, 45*

Answer to 14: Max value is 4; Min value is 0.

Answer to 30: 12 pitchers [per week]; Price: \$11; Max profit: \$72.

Warning on 33: The solutions manual inappropriately uses y to represent a dimension of the large rectangle; it should represent a dimension of one of the smaller rectangles. The back of your book is correct.

Warning on 45b: The solutions manual should read $N'''(t) = -6$, not $N''(t) = -6$.

3.4: Skip.

3.5: Skip.

3.6: 1-17 odd, 25, 27, 37, 51, 53, 55

Note on 51: "Typo" in solutions manual: Replace "decreasing" with "increasing."