MATH 150 HW: CHAPTER 4

SPRING 2009

Write your name and class and clearly separate sections! See the syllabus.

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

This is due when you take the Quiz on Chapter 4.

Graded out of 15 points.

"*" denotes "See Hint below."

Read some of the book's Examples for additional assistance.

Lots of cool stuff on my web site – Notes for Chapter 4!

Do not use graphing calculators to justify your work; they will be forbidden on the quiz.

4.1: 1, 3, 7-25 odd, 31, 37*, 41, 45, 47*

Hint on 37, 47: Read Ex. 5 on p.173: Not every critical number leads to a local extremum.

Look at (don't turn in): 42, 44, 48

4.2: 1-17 odd, 23, 25

Look at (don't turn in): 31, 35, 39

4.3: 1-9 odd, 17, 19, 31, 35, 37

Hint on 7: After applying the Product Rule, factor out the GCF (Greatest Common Factor) from the entire expression.

4.4: 1, 3, 7, 9, 19, 21, 33, 39, 40

Read Ex. 2 on pp.192-3: A similar argument can be made for $f(x) = \cos x$.

4.5: 1, 21, 27, 29, 31, 33

4.6: 1-7 odd, 11, 23, 33

Hint on 23: Remember the Rational Zero Test and synthetic division.

4.7: 1, 3, 5, 9, 11, 17, 33

Look at (don't turn in): 19

4.8: 1, 5 (use $x_1 = -2$), 25, 27

Look at (don't turn in): 26, 28