

Calculus 1A: Homework Assignments. Notes and Hints.

Revised 1/19/09

Spring 2009, TT 3:30pm - 5:00pm, Room 105 Stanley Hall

Instructor: Professor Zvezdelina Stankova

HW14. Read §5.5, §6.1. Solve and Write Problems:

- (1) §5.5: #2,4,8,12,14,18,22,26,28,32,38,42*,44*,46*,52,58,62,66. In trying to guess u , look for part of the **numerator** which looks like the derivative $u'(x)$. For every indefinite integral, you **must** check the answer by differentiation.
- (2) §6.1: #2,4,10,14,16,24,26,49.
 - (a) Skip the part about drawing "typical approximating rectangles". However, for each and every problem from 6.1 you **must** provide a clear graph.
 - (b) #16 (as well as in other problems from 6.1) you will need to find the intersection points of the two given curves; note that in #16 this boils down to solving $x^3 - x = 3x$. A reminder that just giving the answer for #49 (as well as for any other problem) will yield 0 score (if this were a quiz or the final exam). You have to **explain** how you get to your answer and show **all** intermediate calculations.