

Math 186, Winter 2009, Prof. Tesler
Homework #9, Due Thursday March 12, 2009 at 5 p.m.

Note: This assignment is due Thursday March 12 at 5 p.m. at Chris Chang's homework turn-in box (on the wall outside AP&M 6307). The extended due date is because this is the last homework assignment and some topics will not be covered in class until the last week of lectures.

Larsen & Marx:

6.2# 1, 3, 8, 10

6.3# 4, 9(a)

6.4# 5, 10, 11

7.4# 1(a,d), 2(c), 4, 7, 10, 17; do problem H-16 right after 7.4.17, before section 7.5

7.5# 1(a,c), 2(a,c), 3(a)

10.5# 6

Note: If your calculator does hypothesis testing, please do not use the hypothesis testing features at this time; just use your calculator for the arithmetic part of it. You need to go through all the steps now to learn how it works.

Problem H-16.

- (a) Problem 7.4.17 asked you to perform a one-sided hypothesis test to determine whether a worker's respiratory capacity is affected by exposure to the enzyme. Describe in words what "affected" means for that one-sided test.
- (b) State and perform the two-sided test for the exact same data as used in 7.4.17, at $\alpha = .05$, and again at $\alpha = .30$. Describe in words what "affected" means for the two-sided test.