Comments on final problem set

For Question 1: See your class notes. Perhaps the best way to solve this is to use the chain rule combined with the power rule. Be careful to distinguish between constants and variables. X is a constant and x is a variable. See lecture notes from today’s class.

Question 2: Examine and calculate – no help to offer on this one.

Question 3: Check by substitution to be sure those units come out in centigrade.

Question 4: See class notes, posted notes … A detailed explanation is also presented in chapter 4.

Question 5: Details have also been presented in the class on several occasions - including notes from today’s lecture! See class handouts; details are posted on the web site. The derivative of this function is also discussed in chapter 8.

Question 6: You will find good discussions of this material in chapter 7. You will also find thorough discussions in the notes posted on the web and handed out in class.

Question 7: This problem is directly analogous to question 7 in the In-Class/TakeHome Stats exercise handed back today. Also see comment sheet handed back today with the assignment, your detailed class notes, and posted notes on the web.

Question 8: Algebraic manipulation

Question 9 & 10
9. Substitute and solve
10. Substitute and solve