2.2 webassign
Hints
Question 1
What does the derivative mean? slope
What does slope mean? change in function value when input changes by 1

example slope = 3/2 means the function adds 3 when input adds 2
or the function adds 1.5 when input adds 1
My example: given f' '(5)=1.5 and f(5)= 20 estimate f(8) ?
method 1 interpret slope and estimate
at 5 the function is increasing at a rate of 1.5
must go 3 units (8-5) so the function will increase by 3(1.5) =4.5
f(5) + increase = 20+4.5=24.5
method two: write the equation of the tangent line and then plug in 8 for x and evaluate
y =1.5(x-5)+20
1.5(8-5)+20 =24.5 estimate based on rate of change at 5. The best we can do with the information given

Question 7 requires work
Find the rate of change near those points
Can't do algebraically, so make a table of values of the difference quotient at each of the points in question.
You are asked to find the rate of change (ESTIMATE - table of value as h approaches 0)