TAKE NOTES ON LINED PAPER. COPY PROBLEM (IMPORTANT INFORMATION) DOWN FIRST

Section 1.1 Modeling and Equation Solving

Ex. 1) The engineers at an auto manufacturer pay students $0.08 per mile plus $25 per day to road test their new vehicles.

a) Write a LINEAR EQUATION to model the situation. Define variables!

b) How much did the auto manufacturer pay Sally to drive 440 miles in one day?

C) John earned $93 test-driving a new car in one day. How many miles did he drive?

EX 2) Solve the following equations

a) $2x^2 - 5x + 2 = (x-3)(x-2) + 3x$

b) $x(x+7) = 14$

c) $144 = 16t^2$ **d)** $(x - 9)^2 = 49$