

0. Print your name: _____

1. You drive to school, going slow at first, and then speeding up so you won't miss Calculus. But you slow down when you see a police car, and speed up again. Sketch a graph of your distance traveled as a function of time. Label the different sections of the graph explaining what is going on.

2. Find the formula of the linear function whose input is temperature in Fahrenheit and whose output is what the temperature is in Celsius. Use the facts that 32 degrees in Fahrenheit corresponds to 0 degrees in Celsius and 212 degrees in Fahrenheit corresponds to 100 degrees in Celsius .

3. You decide to make Math T-shirts. You have fixed costs of \$200 and variable costs of \$8 per shirt. Find the cost equation and the revenue equation. If you sell the shirts for twelve dollars each, what is your break-even point ?