

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. But right before you get to school you realize that you desperately need an espresso, so you drive to the local cafe and get one to go. Then you rush to school and the fun at Calculus. 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 in slope intercept form 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 start a gourmet ice cream business. Let $S = f(A)$ be your sales as a function of money spent on advertising. Is $f(A)$ likely to be an increasing or a decreasing function ? Why ?