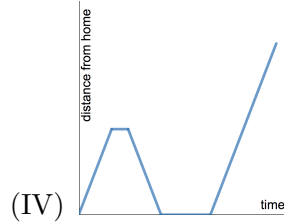
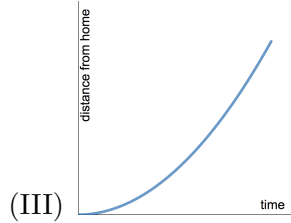
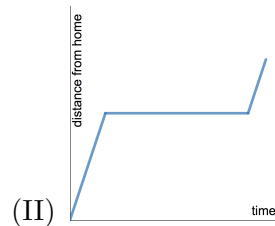
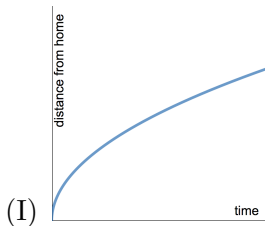


Math 115 Fall 2018

Worksheet 1 – Section 1.1

Problem 1. Which graph best matches each of the following stories? Write a story for the remaining graph.

- (a) I had just left home when I realized I had forgotten my books, so I went back to pick them up.
- (b) Things went fine until I had a flat tire.
- (c) I started out calmly but sped up when I realized I was going to be late.



Problem 2. Residents in the town of Maple Grove who are connected to the municipal water supply are billed a fixed amount monthly plus a charge for each cubic foot of water used. A household using 1000 cubic feet was billed \$40, while one using 1600 cubic feet was billed \$55.

- (a) What is the charge per cubic foot?
- (b) Write an equation for the total cost of a resident's water as a function of cubic feet of water used.
- (c) How many cubic feet of water would lead to a bill of \$100?

Problem 3. Match the graphs in the figure with the following equations. (Note that the x and y scales may be unequal.)

(a) $y = -2.27x$

(d) $y = 0.1x - 27.9$

(b) $y = 20.01 + 1.01x$

(e) $y = -5.7 - 200x$

(c) $y = 27.9 - 0.1x$

(f) $y = x/3.14$

