

Word Problem Review

1. Computix Computers charges a flat fee of \$50 plus \$30 per hour to fix computers. Computer Doctor has no flat fee, but charges \$55 per hour.
 - a) Write an equation representing the cost of fixing your computer at each company.
 - b) What are each of the slopes? What do they represent?
 - c) What are each of the y-intercepts? What do they represent?
 - d) Find the cost of fixing your computer at each company if it takes 2 hours to fix. Who should you go with?
 - e) Find the cost of fixing your computer at each company if it takes 6 hours to fix. Who should you go with?

2. Jon Bon Jovi has \$10 000 000 in his bank account. He takes out \$500 000 each month to give to Ms. Borgo.
- a) Write an equation that represents the amount that Jon Bon has left in his account after every month.
 - b) What is the slope and what does it represent?
 - c) What is the y-intercept and what does it represent?
 - d) How much will be left in his account after 1 year? (Hint: 12 months)

3. A balloon is released off of a hill that is 1500m high. The balloon rises at a rate of 500m/minute.
- a) Write an equation that represents the height of the balloon after each minute.
 - b) What is the slope? What does it represent?
 - c) What is the y-intercept? What does it represent?
 - d) Find the height of the balloon after 10 minutes.

4. Sally's Garage charges a flat rate of \$50 to inspect your vehicle and an hourly rate of \$65 to fix it.

a) Write an equation that represents the cost of fixing your car at Sally's Garage.

b) What is the slope and what does it represent?

c) What is the y-intercept and what does it represent?

d) Find the cost of fixing your car if it takes 9 hours.

5. A sporting company uses the equation $c = 8t + 5$ to represent the relationship between the cost, c , of renting a canoe and the number of hours, t , it is rented for.

a) What is the slope and what does it represent?

b) What is the y-intercept and what does it represent?

c) What is the cost to rent a canoe for 6 hours?