

Name: \_\_\_\_\_

Period: \_\_\_\_\_

Make conclusions about each word problem. Make sure you state the slopes and y-intercepts, along with which has the greater slope, and which has the greater y-intercept.

1. The slope of a is \_\_\_\_\_. The y-intercept of a is \_\_\_\_\_.  
The slope of b is \_\_\_\_\_. The y-intercept of b is \_\_\_\_\_.  
\_\_\_\_\_ has the larger slope. \_\_\_\_\_ has the larger y-intercept.

a. *Mr. Greenjeans has cucumber seedlings that are 2 in. tall and are expected to grow an average of 1.2 in. per week over the next month.*

b. *Mrs. Greenthumb has cucumber seedlings that are 3 in. tall and are expected to grow an average of .8 in. per week over the next month.*

2. The slope of a is \_\_\_\_\_. The y-intercept of a is \_\_\_\_\_.  
The slope of b is \_\_\_\_\_. The y-intercept of b is \_\_\_\_\_.  
\_\_\_\_\_ has the larger slope. \_\_\_\_\_ has the larger y-intercept.

a. *USA Cellphones offers a phone plan of 1000 minutes at \$12 for a month. Each additional minute over 1000 will cost an additional \$0.09 per minute.*

b. *National Cellular offers a phone plan of 1000 minutes at \$15 for a month. Each additional minute over 1000 will cost an additional \$0.06 per minute.*

3. The slope of a is \_\_\_\_\_. The y-intercept of a is \_\_\_\_\_.  
The slope of b is \_\_\_\_\_. The y-intercept of b is \_\_\_\_\_.  
\_\_\_\_\_ has the larger slope. \_\_\_\_\_ has the larger y-intercept.

a. *The monster truck has a gas tank that holds 24 gallons. The truck gets 12 miles per gallon. Represent the amount of gas in the truck based on the number of miles it has traveled.*

b. *The hybrid car has a gas tank that holds 10 gallons. The car gets 48 miles per gallon. Represent the amount of gas in the truck based on the number of miles it has traveled.*

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The slope of b is \_\_\_\_\_. The y-intercept of b is \_\_\_\_\_.  
\_\_\_\_\_ has the larger slope. \_\_\_\_\_ has the larger y-intercept.

a. *A gallon of gasoline at Kennebec Farms cost \$3.80.*

b. *A gallon of gasoline at Marshall's Superstop costs \$3.84.*

2. The slope of a is \_\_\_\_\_. The y-intercept of a is \_\_\_\_\_.  
The slope of b is \_\_\_\_\_. The y-intercept of b is \_\_\_\_\_.  
\_\_\_\_\_ has the larger slope. \_\_\_\_\_ has the larger y-intercept.

a. *The cost of gasoline depends on the number of gallons bought. One gallon costs \$3.50.*

b. *Mr. Green bought tomato plants from a local greenhouse. The plants were 10 cm tall when he bought them. Each week the plants grew an average of 3.5 cm taller.*

3. The slope of a is \_\_\_\_\_. The y-intercept of a is \_\_\_\_\_.  
The slope of b is \_\_\_\_\_. The y-intercept of b is \_\_\_\_\_.  
\_\_\_\_\_ has the larger slope. \_\_\_\_\_ has the larger y-intercept.

a. *The People's Fitness Club is having a sale. They charge members \$5 each time the tanning bed is used in addition to the membership fee of \$100 for the year. The total cost depends on the number of times the tanning bed is used.*

b. *Jack borrowed \$100 from his parents to buy a used IPOD. He plans on paying his parents back \$30 each week until he pays them back. The amount he still owes depends on the number of weeks he has been making payments.*