Homework

. . . .

Name _____   **Date** _____

Directions: For Questions 1 - 6, an equation, graph or table is given. Using what is provided, identify the slope and the *y*-intercept and explain how you determined each answer.
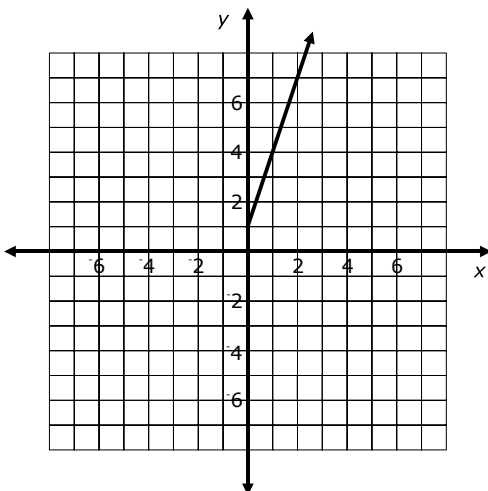
The cell phone company charges $0.10 per text and $30 for the phone line each month. The function representing the total cell phone bill, *b*, in terms of the number of texts sent, *t*, is given below. $$b = 0.10t + 30$$	**1.** Slope? _____ How did you find it? **2.** *y*-intercept? _____ How did you find it?
Josh makes 3 model cars per month. He already had 1 completed before the month began. The graph shows his progress over the month. 	**3.** Slope? _____ How did you find it? **4.** *y*-intercept? _____ How did you find it?

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Olivia has $500 in savings. She takes out $40 each month to help pay her bills. Below is a table showing her savings balance at the end of a given number of months.	**5.** Slope? _____ How did you find it?

Months Passed	Savings Left
1	$460
5	$300
10	$100

6. y-intercept? _____ How did you find it?

Directions: For Questions 7 – 10, identify the slope and the y-intercept of the functions given in slope-intercept form.

7. Function: $y = 5x - 1$
$m =$
$b =$

8. Function: $y = 9x - 2$
$m =$
$b =$

9. Function: $y = 8x$
$m =$
$b =$

10. Function: $y = 3 - x$
$m =$
$b =$