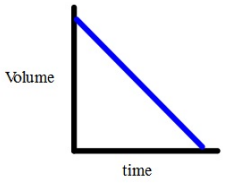
Name: _____
Period: _____

Perry, the platypus, bought a fish tank. The following graphs represent the amount of water in the fish tank.

Use *complete* sentences for each explanation. Sentences ***start*** with a ***capital letter*** and ***end*** with ***a period***.

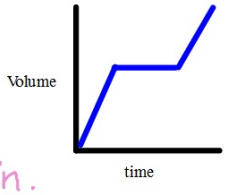
1) What did Perry do to create a graph that looks like this?



Explain:

Perry emptied the fish tank at a steady rate.

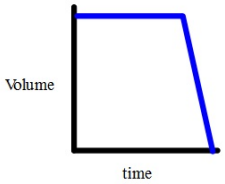
2) What did he do to create a graph that looks like this?



Explain:

Perry was filling up the fish tank. He forgot something and stopped for a min. The continued filling.

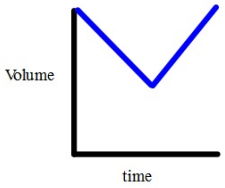
3) What did he do to create a graph that looks like this?



Explain:

Perry was carrying the fish tank, then he dropped it.

4) What did he do to create a graph that looks like this?



Explain:

The tank emptied halfway, then Perry filled it.

Solve for y

1. $y - 3x = 2$

$+3x \quad +3x$

$y = 3x + 2$

2. $\frac{6y}{6} = \frac{24x}{6} - \frac{18}{6}$

$y = 4x - 3$

(2.5) $\frac{4x}{-4} + \frac{12}{-4} = \frac{-4y}{-4}$

$-1x - 3 = 1y$

$-x - 3 = y$

3. $14x + 2y = 24$

$-14x \quad -14x$

$\frac{2y}{2} = \frac{-14x + 24}{2}$

$y = -7x + 12$

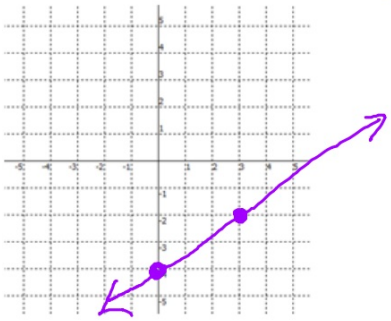
(3.5) $21x - 7y = 49$

$-21x \quad -21x$

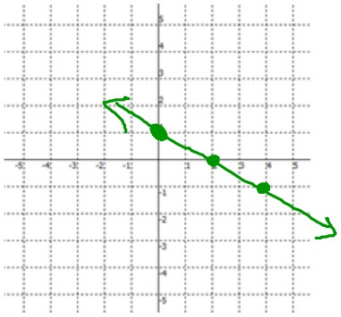
$\frac{-7y}{-7} = \frac{-21x + 49}{-7}$

$y = 3x - 7$

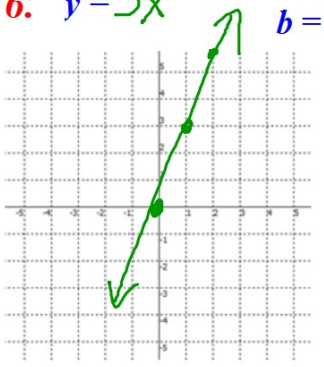
4. $y = \frac{2}{3}x - 4$ $\quad m = \frac{2}{3}$ $\quad b = -4$



5. $y = -\frac{1}{2}x + 1$ $\quad m = -\frac{1}{2}$ $\quad b = 1$



6. $y = 3x$ $\quad m = \frac{3}{1}$ $\quad b = 0$



Name: _____
period: _____

Review for Test #1

Solve for y **Show *all* of the steps necessary to complete *each* problem.**

1. $4x + y = 2$

2. $y - 2x = 6$

3. $4y = 8x - 4$

4. $-2y = 8x + 16$

5. $y + x = 7$

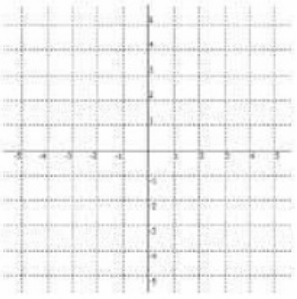
6. $20y = -10x + 80$

Identify the *y-intercept* and *slope* of each equation, then draw the graphs. *(Write slopes in fraction form)*

7. $y = \frac{2}{3}x - 1$

(y – intercept) b =

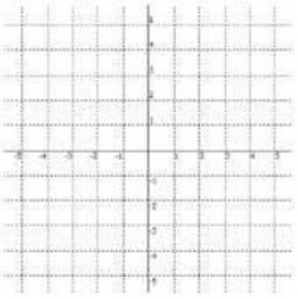
(slope) m = ——



8. $y = -\frac{1}{2}x + 3$

(y – intercept) b =

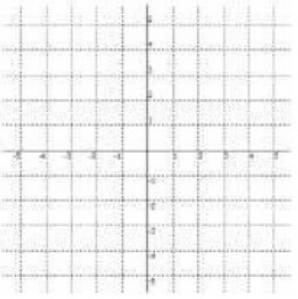
(slope) m = ——



9. $y = 2x - 3$

(y – intercept) b =

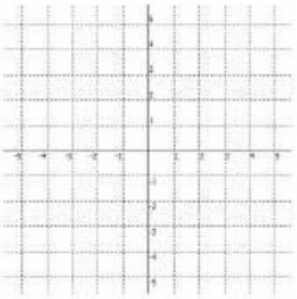
(slope) m = ——



10. $y = x + 2$

(y – intercept) b =

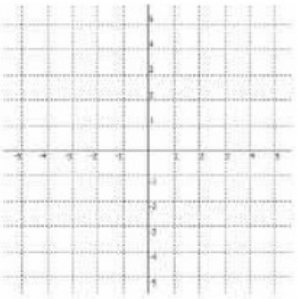
(slope) m = ——



11. $y = -\frac{3}{2}x + 1$

(y – intercept) b =

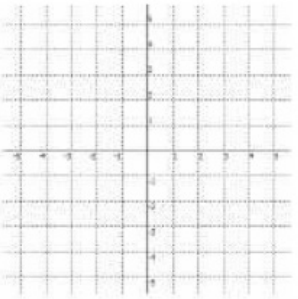
(slope) m = ——



12. $y = -3x + 2$

(y – intercept) b =

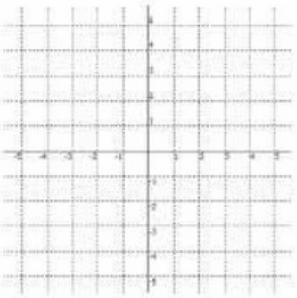
(slope) m = ——



13. $y = -x + 4$

(y – intercept) b =

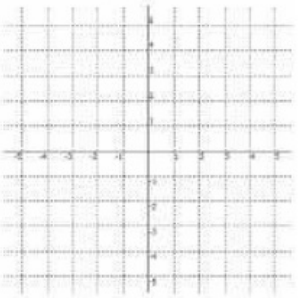
(slope) m = ——



14. $y = -x - 2$

(y – intercept) b =

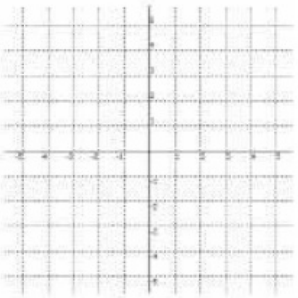
(slope) m = ——



15. $y = -\frac{2}{3}x$

(y – intercept) b =

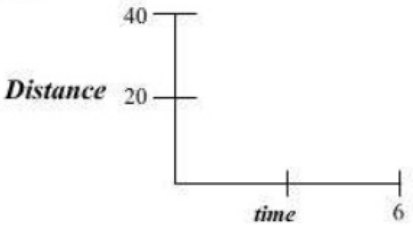
(slope) m = ——



The following graphs represent different trips Principal Sherwood made between his office and the Attendance office. D = 0 is Principal Sherwood's office and D = 40 is Attendance office, and t = 0 is his starting time.

Sketch the graph that corresponds to each of the following descriptions.

16) Principal Sherwood walked from his office to the Attendance office at a steady pace.



17) Principal Sherwood is in the Attendance office when he receives an emergency call to go to his office. Principal Sherwood stays in his office for 2 minutes to take care of the emergency. Afterwards he returns to the Attendance office.