

Wednesday:

1. Barbara has a bunny that weighs 5 pounds and gains 3 pounds per year. Her cat weighs 19 pounds and gains 1 pound per year. When will the bunny and the cat weigh the same amount?

a) At what weight does the Bunny begin? _____
How much weight does the Bunny gain each year? _____
Write the equation for the Bunny's growth _____

year									
weight									

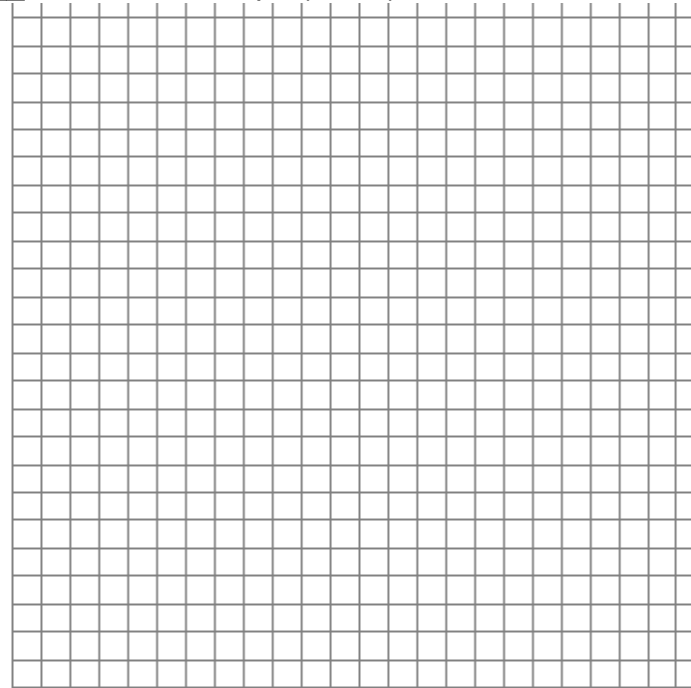
b) At what weight does the Cat begin? _____
How much weight does the Cat gain each year? _____
Write the equation for the Cat's growth _____

year									
weight									

What do the variables represent?
x = _____ y = _____

What does the point of intersection represent?
(write a sentence)

Graph (label!)

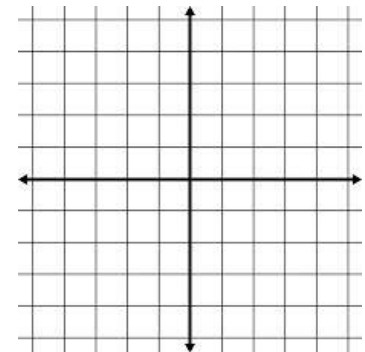


2. Graph the lines (on the same graph) using the slope and y-intercept.

a. $y = -\frac{2}{3}x + 2$ m = b =

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

Solution _____



3. Larry can walk 5 blocks in 3.5 minutes.

- What is his speed (unit rate)?
- How far can he walk in 12 minutes?
- How long will it take him to walk 22 blocks?

Thursday:

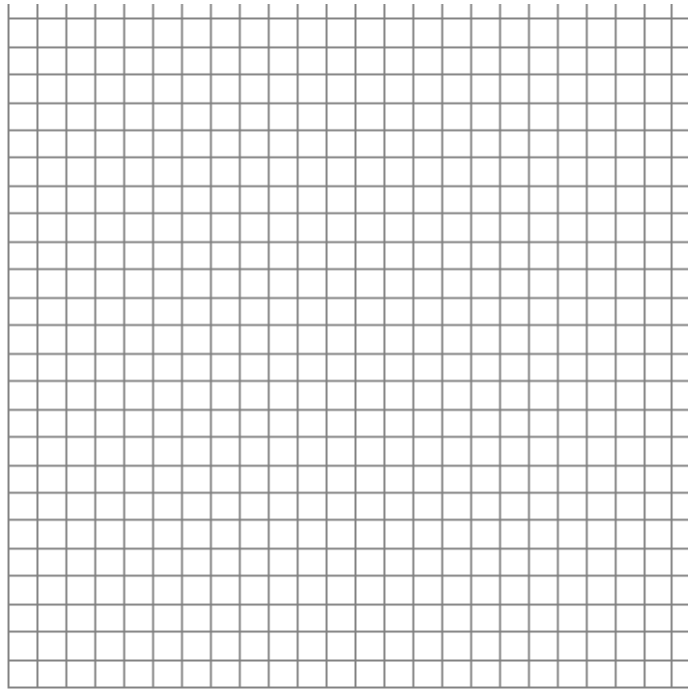
1. To rent a jet ski at Sam's costs \$25 registration plus \$3 per hour. At Claire's it costs \$5 registration plus \$8 per hour. At how many hours will the rental cost of both shops be equal? Write an equation that represents both shop's charges. Graph both equations.

Sam's starting cost is _____ and his cost per hour is _____.
equation _____

Claire's starting cost is _____ and her cost per hour is _____.
equation _____

x = _____ y = _____

Write a sentence explaining the point of intersection:



2. Solve; do the check step:

a. $-7x + 10 = -4(x - 2)$ ✓

b. $3x + 9 - 4x = -(2x - 5) - 7$ ✓

3. Find the slope and rule and fill in the table:

x	0	1	2	5	8	12	41
y			4		7		

Slope _____

Rule _____

4. Find the volumes given the formula (remember to label!!):

a. V of cylinder = $\pi r^2 \cdot h$

b. V of rectangular prism = length x width x height

