Board Problems Ch. 11

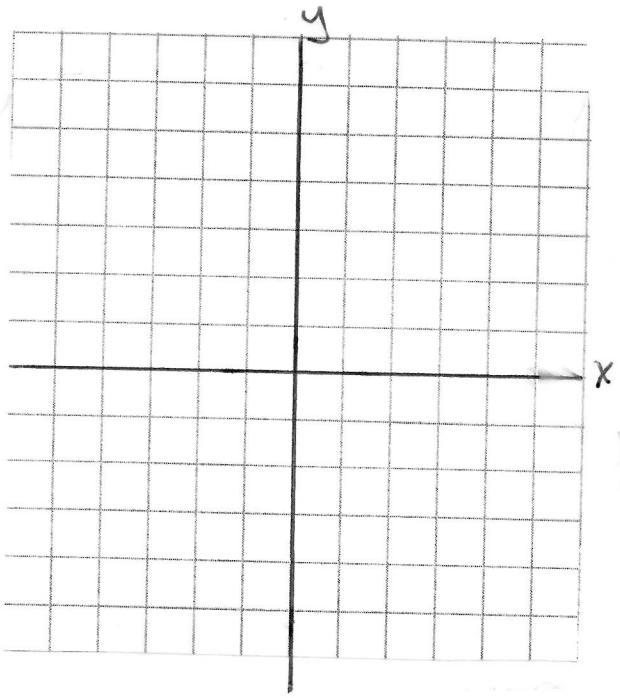
① If two lines have the same slope, they are _____.

② How do we know if two lines are perpendicular?

_____

③ Draw $y = 3x - 2$

What line is perpendicular and goes through point (0, 1)? _____



Draw the perpendicular line and put in slope-intercept form.

$Y =$ _____

④ Write both lines in #3 in standard form.

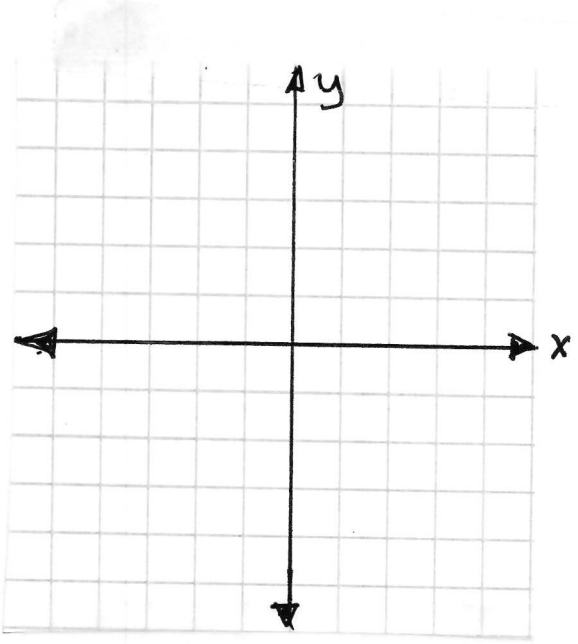
_____

_____

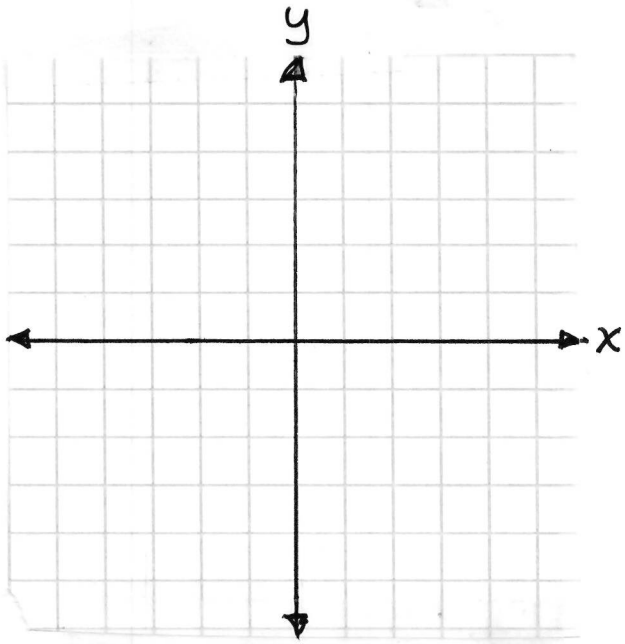
CH 11 NOTES - DIFFERENT INPUTS

PLOT LINE THROUGH

(1, 2) $m = 3$



(1, 1) (-1, 5)



NOTES

WITHOUT DRAWING

$(3, 4)$ $m = 2$

$(-2, 3)$ $(6, -1)$ $\qquad m = \dfrac{y_2 - y_1}{x_2 - x_1}$

Ch. 11 Systematic Review

The ratio of kittens to puppies is 2 to 3? If there are 20 animals total, how many are kittens? Puppies?

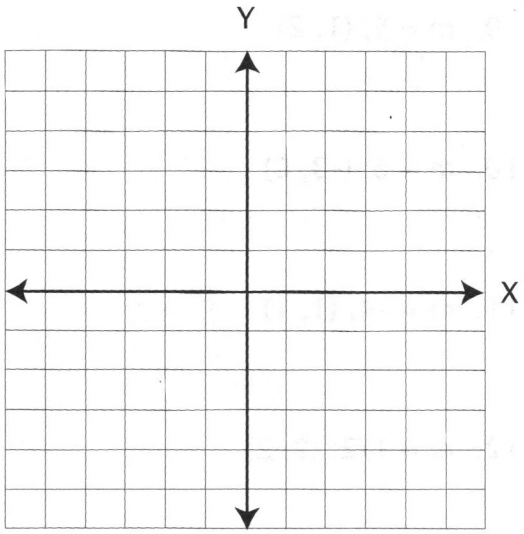
What % are kittens?

55% of 70 = ____

LESSON PRACTICE

Follow the directions.

1. Draw a line with m = 3 through the point (1, 2).

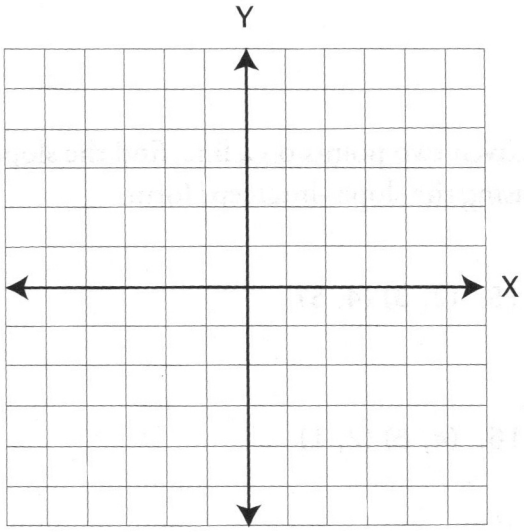


2. Estimate the Y-intercept.

3. Describe the line using the slope-intercept form.

4. Now describe the line using the standard form of the equation of a line.

5. Find the slope of the line passing through the points (-2, 1) and (6, 3), then draw to check.



6. Find the intercept by computing first. Then confirm by checking your drawing from #5.

7. Describe the line using the slope-intercept form.

8. Now describe the line using the standard form of the equation of a line.

Given the slope of the line and a point on the line, describe the following lines using the slope–intercept form.

9. m = 5; (1, 2)

10. m = 6; (-3, 6)

11. m = -4; (1, 1)

12. m = 1/2; (2, 2)

13. m = 2/3; (5, 8)

14. m = -1/4; (2, 1)

Given two points on a line, find the slope and Y–intercept of the line, and then describe it using the slope–intercept form.

15. (2, 3) (4, 5)

16. (4, 6) (2, 1)

17. (3, 3) (1, 0)