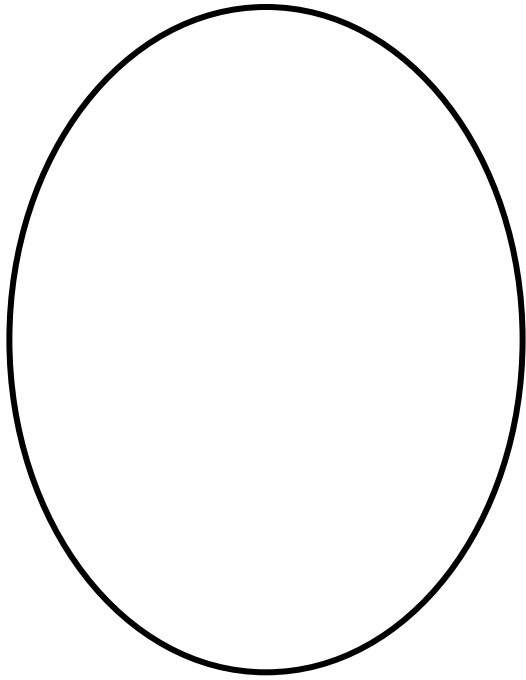


Lesson 8: Finding the Point of Intersection between Two Lines by Graphing

Warm-Up: Mr. Slope Guy!!!



Answer the following:

Determine the equation of the line given the following information:

1. Parallel and Point: it is parallel to $y = \frac{3}{5}x + 10$
2. Perpendicular and Point: It is perpendicular to $y = -3x - 4$ and has the same x-intercept as $2x - 6y = 18$

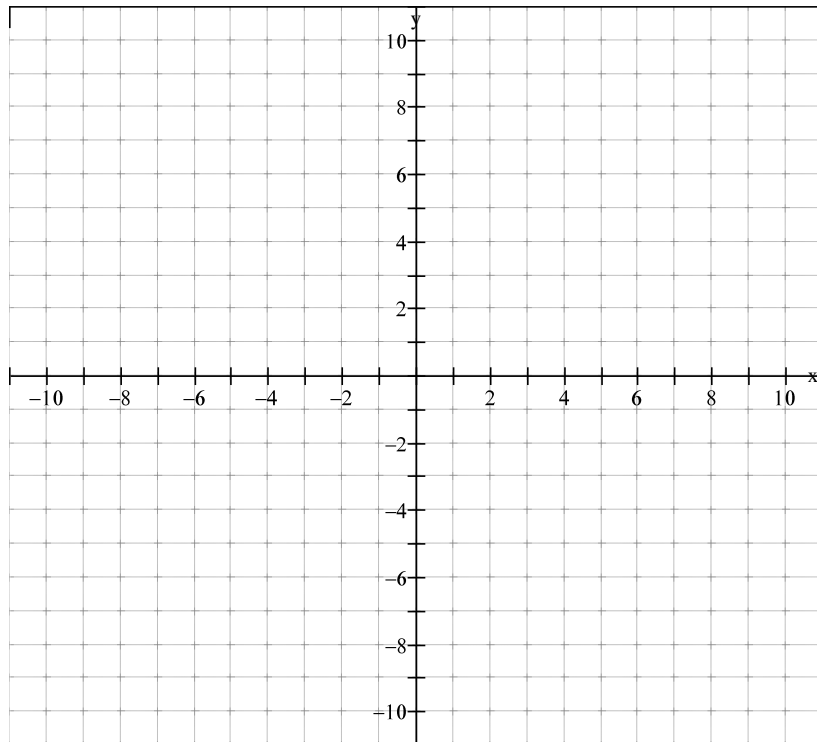
3. Finding the Point of Intersection between Two Lines by Graphing

Example 1:

Determine the point of intersection between the following two lines by graphing them. Check your answer.

$$y = x + 1$$

$$y = 4x - 5$$

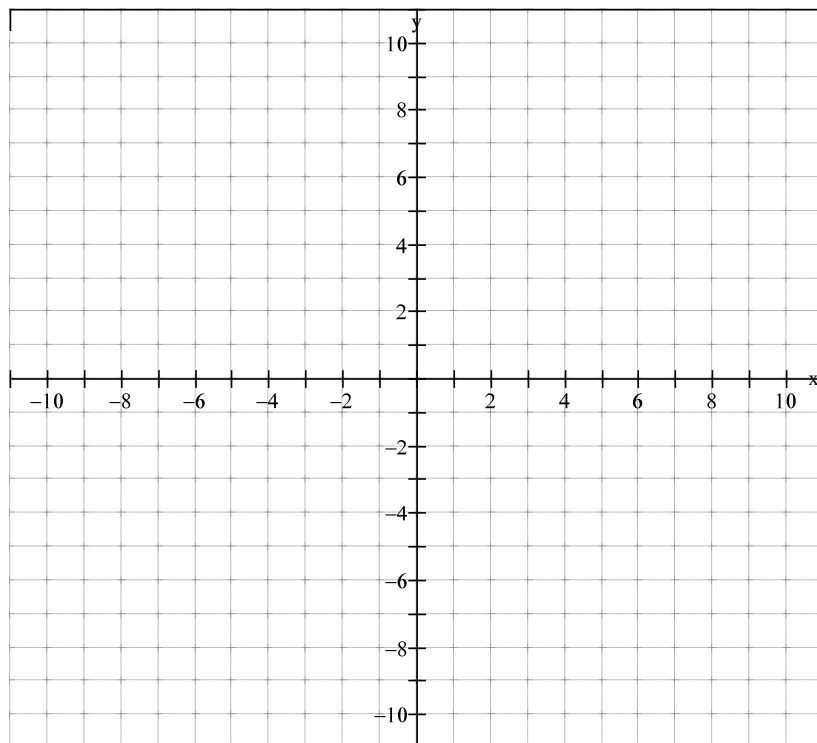


Example 2:

Do the following lines intersect at the point (1, -1)? If not, determine the point of intersection.

$$y = -2x - 3$$

$$y = x - 6$$

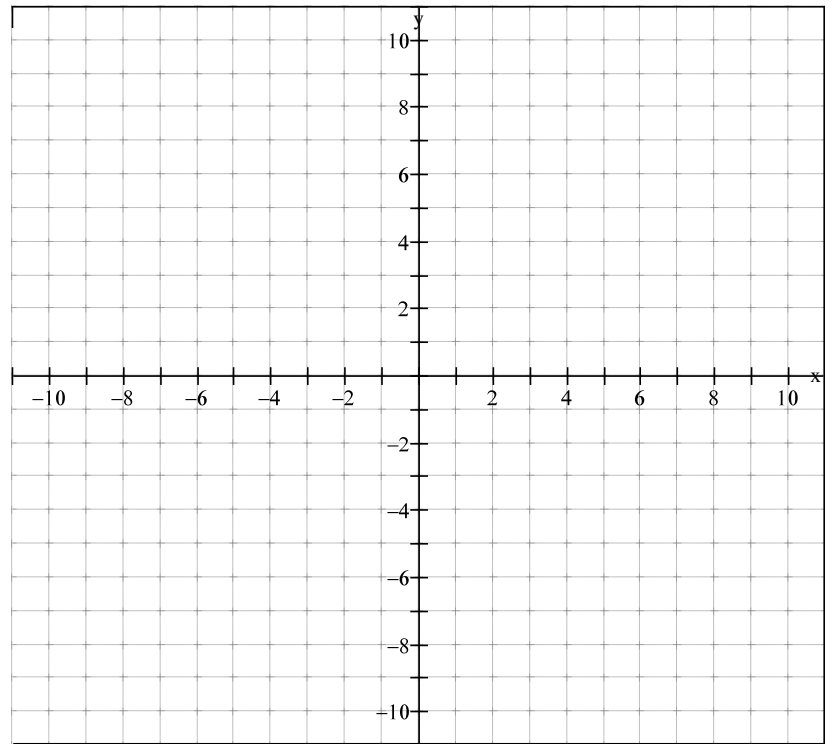


Example 3:

Where will the following lines intersect?

$$y = \frac{3}{2}x - 4$$

$$y = -0.5x$$



Homework: p.157 #1-4, 5 (by graphing), 6