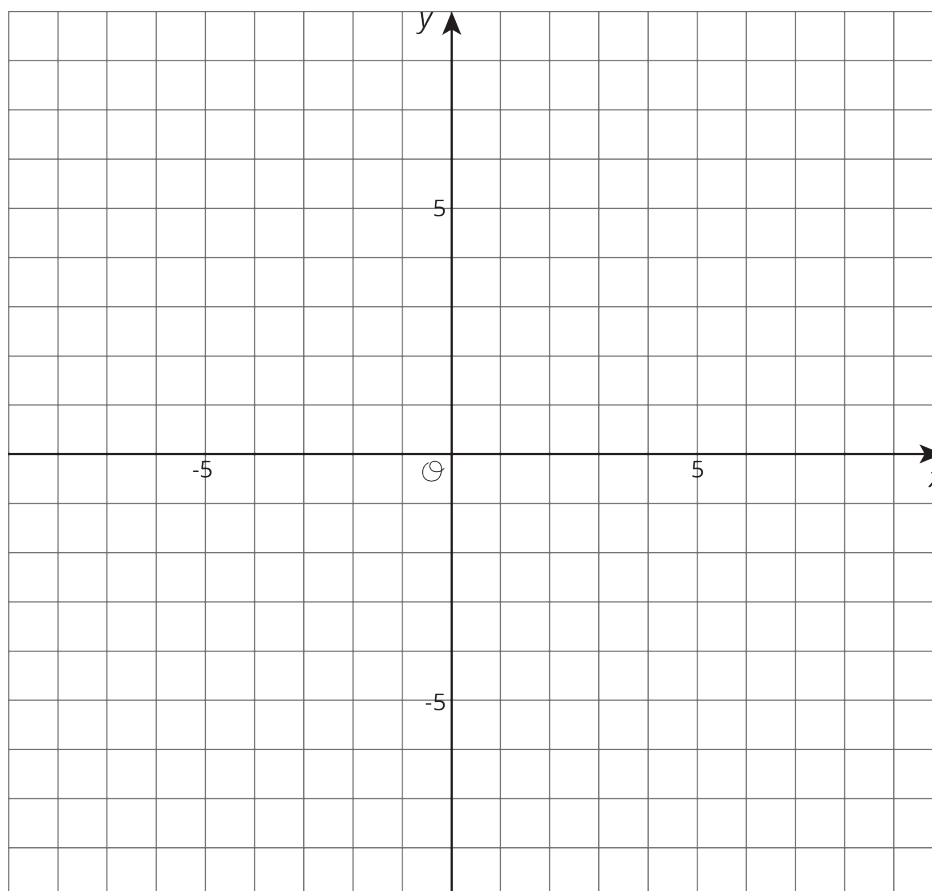


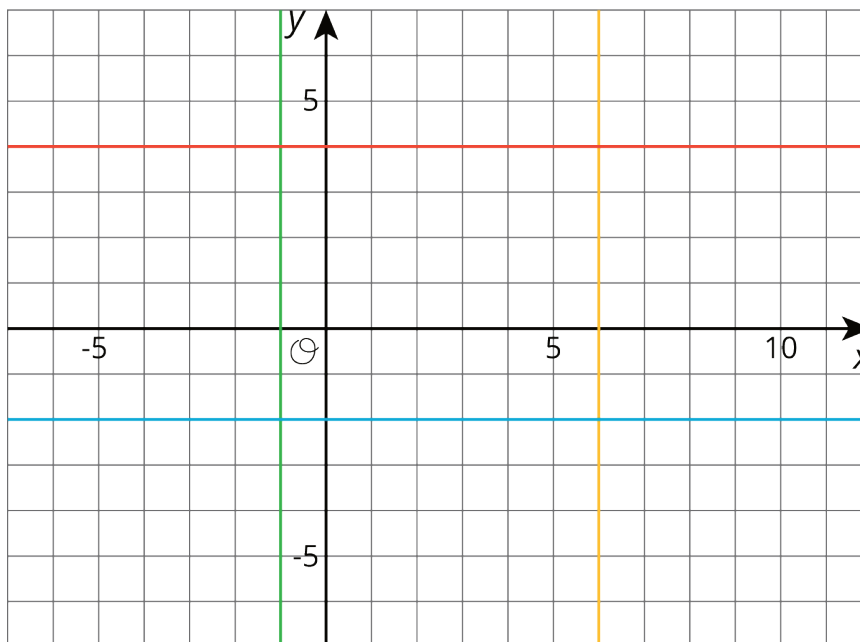
Lesson 11 Practice Problems

1. Suppose you wanted to graph the equation $y = -4x - 1$.
 - a. Describe the steps you would take to draw the graph.
 - b. How would you check that the graph you drew is correct?

2. Draw the following lines and then write an equation for each.
 - a. Slope is 0, y -intercept is 5
 - b. Slope is 2, y -intercept is -1
 - c. Slope is -2, y -intercept is 1
 - d. Slope is $-\frac{1}{2}$, y -intercept is -1



3. Write an equation for each line.



4. A publisher wants to figure out how thick their new book will be. The book has a front cover and a back cover, each of which have a thickness of $\frac{1}{4}$ of an inch. They have a choice of which type of paper to print the book on.

- a. Bond paper has a thickness of $\frac{1}{4}$ inch per one hundred pages. Write an equation for the width of the book, y , if it has x hundred pages, printed on bond paper.
- b. Ledger paper has a thickness of $\frac{2}{5}$ inch per one hundred pages. Write an equation for the width of the book, y , if it has x hundred pages, printed on ledger paper.
- c. If they instead chose front and back covers of thickness $\frac{1}{3}$ of an inch, how would this change the equations in the previous two parts?

(From Unit 3, Lesson 7.)