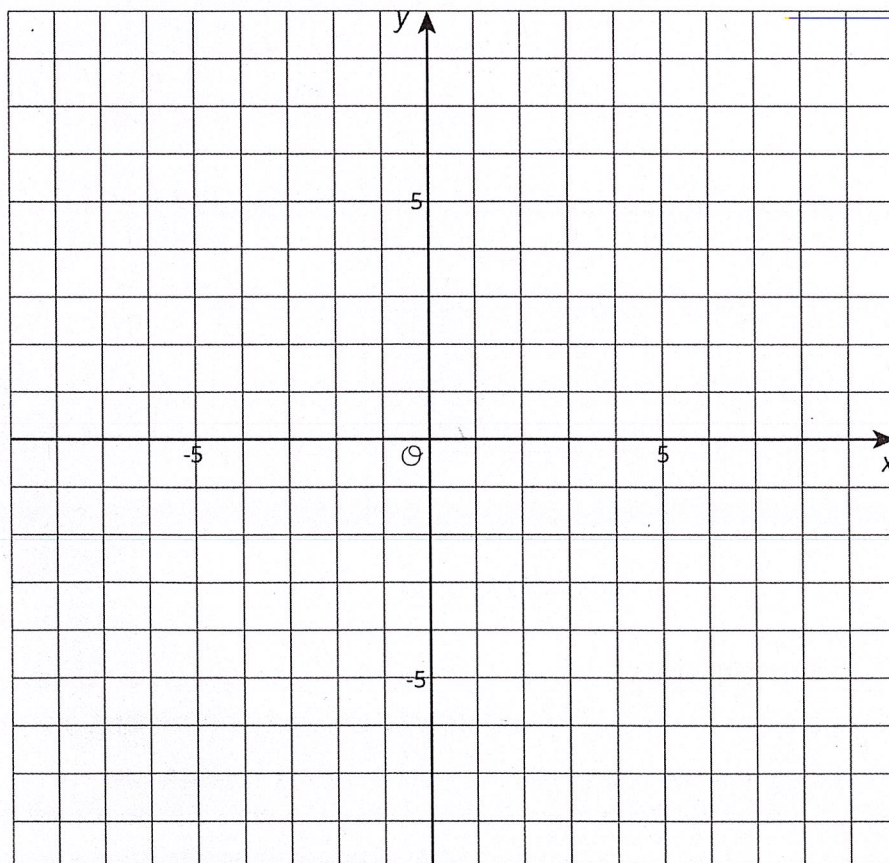


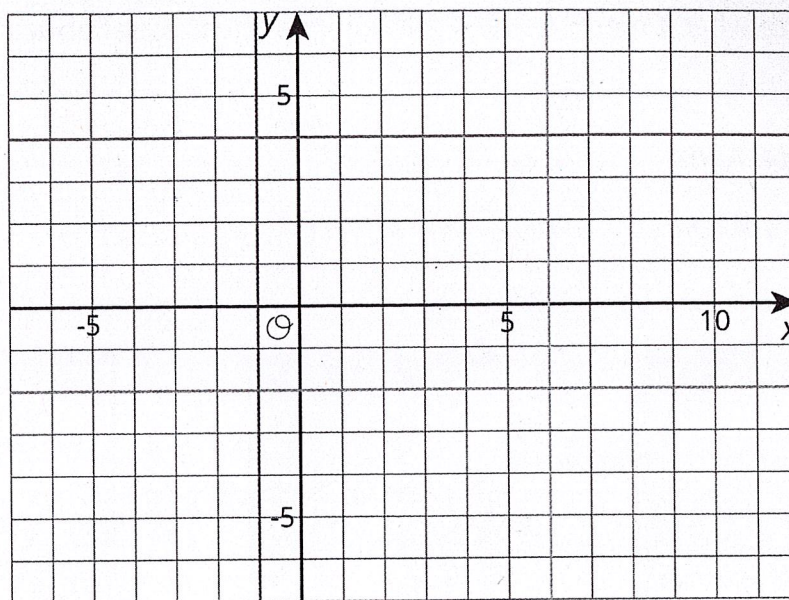
**Lesson 11 Practice Problems**

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.

- 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.
- 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.
- 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?