

# 2 Chapter Test



Find the slope and y-intercept of the graph of the linear equation.

1.  $y = 6x - 5$

2.  $y = 20x + 15$

3.  $y = -5x - 16$

4.  $y - 1 = 3x + 8.4$

5.  $y + 4.3 = 0.1x$

6.  $-\frac{1}{2}x + 2y = 7$

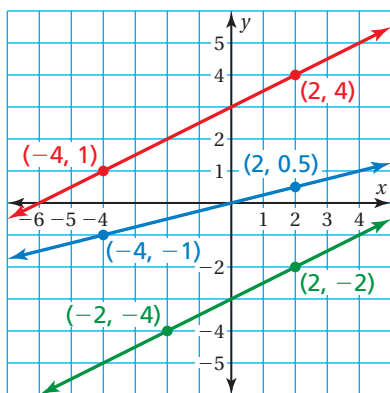
Graph the linear equation.

7.  $y = 2x + 4$

8.  $y = -\frac{1}{2}x - 5$

9.  $-3x + 6y = 12$

10. Which two lines are parallel? Explain.



11. The points in the table lie on a line. Find the slope of the line. Then draw its graph.

x	y
-1	-4
0	-1
1	2
2	5

12. Solve the system of linear equations using any method.

$$\begin{aligned} 2x - y &= 16 \\ y &= 12 + x \end{aligned}$$

13. Use a graph to solve the equation. Check your solution.

$$2x + 6 = 4x - 12$$

14. **MATH TEST** A math class has a test today. There are 30 problems on the test. The test has two types of problems: multiple choice problems and word problems. The multiple choice problems are worth 2 points and the word problems are worth 5 points. The teacher says there are a total of 75 points possible. How many multiple choice and word problems are on the test?

$$\begin{array}{|l} \text{Number of multiple} \\ \text{choice problems, } x \end{array} + \begin{array}{|l} \text{Number of word} \\ \text{problems, } y \end{array} = 30$$

$$\begin{array}{|l} \text{Point value of} \\ \text{multiple choice} \\ \text{problems} \end{array} \cdot \begin{array}{|l} \text{Number of} \\ \text{multiple choice} \\ \text{problems, } x \end{array} + \begin{array}{|l} \text{Point value of} \\ \text{word problems} \end{array} \cdot \begin{array}{|l} \text{Number of word} \\ \text{problems, } y \end{array} = 75$$