

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

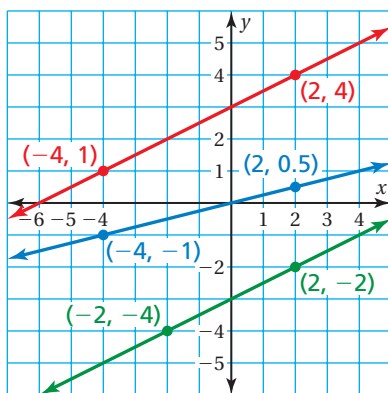
Graph the linear equation.

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.

$$2x - y = 16$$

$$y = 12 + x$$

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?

Number of multiple choice problems, $x$	+	Number of word problems, $y$	=	30
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Point value of multiple choice problems	•	Number of multiple choice problems, $x$	+	Point value of word problems	•	Number of word problems, $y$	=	75
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