* Fill in the blank.
* 1. If two lines are parallel then their slope is the \_\_\_\_\_\_\_\_\_\_\_\_.
* 2. If two lines are perpendicular then their slopes are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* 3. Slope-Intercept form is y = \_\_\_\_\_\_\_\_\_\_\_\_\_.
* 4. A line with a negative slope is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* 5. A line with a positive slope is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* 6. A line that has a slope that is undefined is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* 7. A line that has a slope of zero is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* 8. The letter b represents the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* 9. What is the y-intercept of the line described by the equation y = -2x + 6?
* 10. What is the slope of the line described by the equation y = 5x – 7?
* 11. What would be the slope of a line that is parallel to the line of the equation y = -2x + 3?
* 12. What would be the slope of a line that is perpendicular to the line of the equation y = 1/3 x + 8?
* 13. What is the y-intercept of the line described by the equation
* y = -1/2x - 8?
* 14. What is the slope of the line described by the equation y = -5x – 6/5?
* 15. What would be the slope of a line that is parallel to the line of the equation y = 1/3x + 3?
* 16. What would be the slope of a line that is perpendicular to the line of the equation y = -5x + 8?

Multiple Choice

17. Which equation describes a line that is perpendicular to the line described by y = -8 x – 6 ?

7

* 1. y = -8 x – 6

7

* 1. y = -8 x + 6
* 7
  1. y = -7 x – 6

8

d. y = 7 x – 6

8

18. Which equation describes a line that is parallel to the line described by y = -4 x – 3 ?

3

* 1. y = -4 x – 3

3

* 1. y = -4 x + 3
* 3
  1. y = -3 x – 3

4

d. y = -3 x + 3

4

19. Which equation describes a line that is parallel to the line described by y = -7 x – 2 ?

3

* 1. y = -3 x – 3

7

* 1. y = -7 x + 3
* 3
  1. y = 7 x – 3

3

d. y = 3 x + 3

7

20. Which equation describes a line that is perpendicular to the line described by y = 2 x – 5 ?

5

* 1. y = -5 x – 3

2

* 1. y = 5 x + 3
* 2
  1. y = -2 x – 3

5

d. y = 2 x + 3

5

21. Which equation describes a line that is perpendicular to the line described by y = 2x – 5?

* 1. y = 2x + 5
  2. y = -1 x + 3
* 2
  1. y = -1 x – 5

2

d. y = -2x - 3

22. Line k is described by the equation y = 4x – 3. Which equation describes a line parallel to line k?

* 1. y = -4x – 4

* 1. y = 4x + 3
* 1. y = -1 x – 3

4

d. y = -1 x + 3

4

23. Graph the line described by the equation y = 3x - 6.

24. Graph the line described by the equation y = -4/5 x + 3.

25. Graph the line described by the equation y = -x + 7.

26.What is the y-intercept of the line described by the equation y = -3x – 7?

27. What is the slope of the line described by the equation y = 3/5 x – 5?

28. What is the slope-intercept form of the equation 5x – 3y = 21?

29. The equation of a line is shown below.

15y + 3x + 55 = -5

What is the y-intercept of the line?

30. What is the slope-intercept form of the equation 4x – y = 36?

31. What is the slope intercept form of the equation 11y – 22x -110 = 0?

32. Write out, in words, the procedure used to determine the slope of the line described by the equation -3y + 4x = 12.