

Name: _____ Date: _____ Per: _____

5.2 Practice 2

Write the equation of the line that passes through each point with the given slope.

1. $(1, 9)$, $m = 4$

$$y = 4x + 5$$

2. $(4, 2)$, $m = -2$

$$y = -2x + 10$$

3. $(2, -2)$, $m = 3$

$$y = 3x - 8$$

4. $(3, 0)$, $m = 5$

$$y = 5x - 15$$

5. $(-3, -2)$, $m = 2$

$$y = 2x + 4$$

6. $(-5, 4)$, $m = -4$

$$y = -4x - 16$$

Write the equation of the line that passes through each pair of points.

7. $(1, 3)$, $(-3, -5)$

$$y = 2x + 1$$

8. $(1, 4)$, $(6, -1)$

$$y = -x + 5$$

9. $(1, -1)$, $(3, 5)$

$$y = 3x - 4$$

10. $(-2, 4)$, $(0, 6)$

$$y = x + 6$$

11. $(3, 3)$, $(1, -3)$

$$y = 3x - 6$$

12. $(-1, 6)$, $(3, -2)$

$$y = -2x + 4$$

Write an equation of the line that has each pair of intercepts.

13. x -intercept: -3 , y -intercept: 6

$$y = 2x + 6$$

14. x -intercept: 3 , y -intercept: 3

$$y = -x + 3$$

15. x -intercept: 1 , y -intercept: 2

$$y = -2x + 2$$

16. x -intercept: 2 , y -intercept: -4

$$y = 2x - 4$$

17. x -intercept: -4 , y -intercept: -8

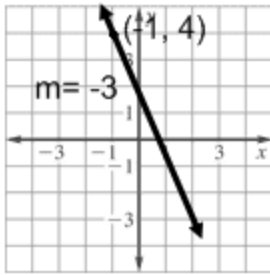
$$y = -2x - 8$$

18. x -intercept: -1 , y -intercept: 4

$$y = 4x + 4$$

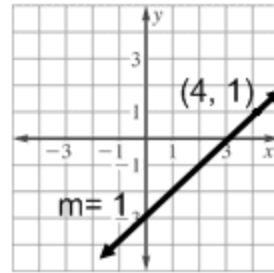
Write the equation of the line represented by the graph.

19.



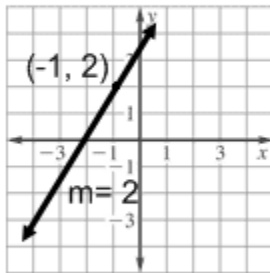
$$y = -3x - 1$$

20.



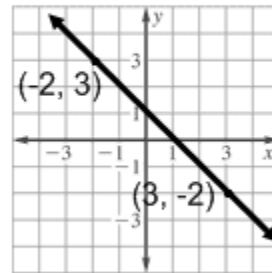
$$y = x - 3$$

21.



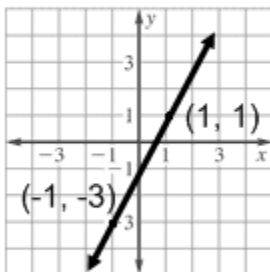
$$y = 2x + 4$$

22.



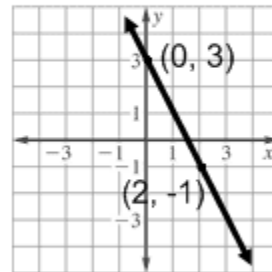
$$y = -x + 1$$

23.



$$y = 2x - 1$$

24.



$$y = -2x + 3$$