

## Writing Linear Equations

 Write the equation of the line through the given points.

1) through:  $(1, -2), (2, 3)$

9) through:  $(6, 8), (4, 14)$

2) through:  $(-2, 1), (1, 4)$

10) through:  $(5, 9), (7, -3)$

3) through:  $(-2, 1), (0, 5)$

11) through:  $(-2, 8), (-6, -4)$

4) through:  $(5, 4), (2, 1)$

12) through:  $(3, 3), (1, -5)$

5) through:  $(-4, 9), (3, 2)$

13) through:  $(8, -5), (-5, 8)$

6) through:  $(8, 3), (7, 2)$

14) through:  $(2, -6), (-1, 3)$

7) through:  $(7, -2), (5, 2)$

15) through:  $(5, 5), (2, -4)$

8) through:  $(-3, 9), (5, -7)$

16) through:  $(-1, 8), (2, -7)$

 Solve each problem.

17) What is the equation of a line with slope 2 and intercept 4? \_\_\_\_\_

18) What is the equation of a line with slope 4 and intercept 12? \_\_\_\_\_

19) What is the equation of a line with slope 4 and passes through point  $(4, 2)$ ?

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20) What is the equation of a line with slope  $-2$  and passes through point  $(-2, 4)$ ?

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21) The slope of a line is  $-3$  and it passes through point  $(-1, 5)$ . What is the equation of the line? \_\_\_\_\_

22) The slope of a line is 3 and it passes through point  $(-1, 4)$ . What is the equation of the line? \_\_\_\_\_



## Answers

### *Writing Linear Equations*

1)  $y = 5x - 7$

2)  $y = x + 3$

3)  $y = 2x + 5$

4)  $y = x - 1$

5)  $y = -x + 5$

6)  $y = x - 5$

7)  $y = -2x + 12$

8)  $y = -2x + 3$

9)  $y = -3x + 26$

10)  $y = -6x + 39$

11)  $y = 3x + 14$

12)  $y = 4x - 9$

13)  $y = -x + 3$

14)  $y = -3x$

15)  $y = 3x - 10$

16)  $y = -5x + 3$

17)  $y = 2x + 4$

18)  $y = 4x + 12$

19)  $y = 4x - 14$

20)  $y = -2x + 8$

21)  $y = -3x + 2$

22)  $y = 3x + 7$