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Writing Linear Equations

✎ *Write the equation of the line through the given points.*

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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 $(4, 2)$?
_____

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

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? _____

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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) $y = 3x + 7$