

Math 8

16-11-17-8R

Rewrite each equation in slope-intercept form.

1) $y - 4 = \frac{9}{4}(x - 4)$

2) $y = \frac{5}{2}(x - 2)$

3) $y - 4 = -\frac{1}{5}(x - 5)$

4) $y - 1 = -\frac{3}{10}(x - 5)$

Rewrite each equation in standard form.

5) $y - 5 = -2(x + 4)$

6) $y + 1 = -\frac{3}{5}(x + 5)$

7) $y + 3 = \frac{1}{4}(x - 4)$

8) $y - 4 = -(x + 1)$

Write the point-slope form of the equation of the line through the given points.

9) through: $(3, -2)$ and $(0, 0)$

10) through: $(0, -1)$ and $(-1, -3)$

11) through: $(-2, -1)$ and $(1, -2)$

12) through: $(3, 3)$ and $(-4, -1)$

Write the slope-intercept form of the equation of the line through the given points.

13) through: $(-5, -3)$ and $(0, 5)$

14) through: $(2, -4)$ and $(3, 1)$

15) through: $(1, 3)$ and $(-3, -1)$

16) through: $(4, -1)$ and $(5, 0)$

Write the standard form of the equation of the line through the given points.

17) through: $(0, -3)$ and $(-2, 1)$

18) through: $(-5, 4)$ and $(-5, 3)$

19) through: $(3, 0)$ and $(2, 1)$

20) through: $(-4, 4)$ and $(5, 3)$

Write the standard form of the equation of the line described.

21) through: $(-1, 1)$, parallel to $y = -4x + 3$

22) through: $(-2, 0)$, parallel to $y = -\frac{1}{2}x$

23) through: $(-4, -2)$, parallel to $y = -\frac{3}{4}x - 4$

24) through: $(-4, 0)$, parallel to $y = -\frac{1}{4}x - 2$

25) through: $(0, 1)$, parallel to $3x + y = -4$

26) through: $(-4, -5)$, parallel to $5x - y = -2$

27) through: $(3, -1)$, parallel to $3x - y = -4$

28) through: $(2, 0)$, parallel to $\frac{3}{2}x + y = -1$

29) through: $(2, -1)$, parallel to $y = 1$

30) through: $(-3, 1)$, parallel to $y = x + 1$

31) through: $(3, 4)$, parallel to $y = 3x + 5$

32) through: $(2, -3)$, parallel to $y = -\frac{4}{5}x - 4$

Answers to 16-11-17-8R

$$1) y = \frac{9}{4}x - 5$$

$$5) 2x + y = -3$$

$$9) y + 2 = -\frac{2}{3}(x - 3)$$

$$13) y = \frac{8}{5}x + 5$$

$$17) 2x + y = -3$$

$$21) 4x + y = -3$$

$$25) 3x + y = 1$$

$$29) y = -1$$

$$2) y = \frac{5}{2}x - 5$$

$$6) 3x + 5y = -20$$

$$10) y + 1 = 2x$$

$$14) y = 5x - 14$$

$$18) x = -5$$

$$22) x + 2y = -2$$

$$26) 5x - y = -15$$

$$30) x - y = -4$$

$$3) y = -\frac{1}{5}x + 5$$

$$7) x - 4y = 16$$

$$11) y + 1 = -\frac{1}{3}(x + 2)$$

$$15) y = x + 2$$

$$19) x + y = 3$$

$$23) 3x + 4y = -20$$

$$27) 3x - y = 10$$

$$31) 3x - y = 5$$

$$4) y = -\frac{3}{10}x + \frac{5}{2}$$

$$8) x + y = 3$$

$$12) y - 3 = \frac{4}{7}(x - 3)$$

$$16) y = x - 5$$

$$20) x + 9y = 32$$

$$24) x + 4y = -4$$

$$28) 3x + 2y = 6$$

$$32) 4x + 5y = -7$$