

Standard Form

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Write the standard form of the equation of each line.

1) $y = -x + 5$

2) $y = \frac{1}{4}x + 2$

3) $y = \frac{5}{2}x - 1$

4) $y = -4x - 3$

5) $y + 5 = -10(x - 1)$

6) $0 = x + 1$

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

8) $y - 5 = \frac{8}{3}(x - 3)$

9) $-3 + 2x = y$

10) $0 = -y + x - 4$

$$11) -6 + 3x - 3y = 0$$

$$12) 6y = 3x - 6$$

Write the standard form of the equation of the line through the given point with the given slope.

$$13) \text{ through: } (0, 0), \text{ slope} = \frac{1}{3}$$

$$14) \text{ through: } (-2, -5), \text{ slope} = 1$$

$$15) \text{ through: } (-1, 0), \text{ slope} = -\frac{2}{3}$$

$$16) \text{ through: } (-2, 4), \text{ slope} = -\frac{3}{2}$$

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

$$17) \text{ through: } (-2, -3) \text{ and } (3, 2)$$

$$18) \text{ through: } (-2, -5) \text{ and } (-1, 3)$$

$$19) \text{ through: } (-2, 2) \text{ and } (-5, 5)$$

$$20) \text{ through: } (-3, -1) \text{ and } (2, 5)$$

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Write the standard form of the equation of each line.

1) $y = -x + 5$

$x + y = 5$

2) $y = \frac{1}{4}x + 2$

$x - 4y = -8$

3) $y = \frac{5}{2}x - 1$

$5x - 2y = 2$

4) $y = -4x - 3$

$4x + y = -3$

5) $y + 5 = -10(x - 1)$

$10x + y = 5$

6) $0 = x + 1$

$x = -1$

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

$4x + 5y = -25$

8) $y - 5 = \frac{8}{3}(x - 3)$

$8x - 3y = 9$

9) $-3 + 2x = y$

$2x - y = 3$

10) $0 = -y + x - 4$

$x - y = 4$

$$11) -6 + 3x - 3y = 0$$

$$x - y = 2$$

$$12) 6y = 3x - 6$$

$$x - 2y = 2$$

Write the standard form of the equation of the line through the given point with the given slope.

$$13) \text{ through: } (0, 0), \text{ slope} = \frac{1}{3}$$

$$x - 3y = 0$$

$$14) \text{ through: } (-2, -5), \text{ slope} = 1$$

$$x - y = 3$$

$$15) \text{ through: } (-1, 0), \text{ slope} = -\frac{2}{3}$$

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

$$16) \text{ through: } (-2, 4), \text{ slope} = -\frac{3}{2}$$

$$3x + 2y = 2$$

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

$$17) \text{ through: } (-2, -3) \text{ and } (3, 2)$$

$$x - y = 1$$

$$18) \text{ through: } (-2, -5) \text{ and } (-1, 3)$$

$$8x - y = -11$$

$$19) \text{ through: } (-2, 2) \text{ and } (-5, 5)$$

$$x + y = 0$$

$$20) \text{ through: } (-3, -1) \text{ and } (2, 5)$$

$$6x - 5y = -13$$