

Writing the Equation of a Line in Standard Form

Overview of problems



Example Set: A

Transform the linear equations into *Standard Form* with integer coefficients

$$2x + 6 = y$$

$$y - 3 = 0$$

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

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

$$3x + 2y - 10 = 2 + x$$

$$-6y = \frac{1}{2}x + \frac{1}{3}$$



Example Set: B

Write the equation of the line(in standard form) given the slope and a point

$$m = -2 \quad (4, -3)$$

$$m = 3/4 \quad (-1, 5)$$

$$m = -1 \quad (9, 0)$$

$$m = 1/3 \quad (-6, 6)$$



Example Set: C

Write the equation of the line(in standard form) that passes through the two points.

$$(2, 7), (1, 3)$$

$$(-1, -3), (4, 5)$$

$$(7, 9), (8, 11)$$

$$(-4, -2), (3, 8)$$

Writing the Equation of a Line in Standard Form

Overview of problems- KEY



Example Set: A

Transform the linear equations into *Standard Form* with integer coefficients

$$2x + 6 = y$$

$$2x - y = -6$$

$$y - 3 = 0$$

$$y = 3$$

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

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

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

$$5x + 15y = 6$$

$$3x + 2y - 10 = 2 + x$$

$$2x + 2y = 12$$

$$-6y = \frac{1}{2}x + \frac{1}{3}$$

$$-3x - 36y = 2$$



Example Set: B

Write the equation of the line(in standard form) given the slope and a point

$$m = -2 \quad (4, -3)$$

$$2x + y = 5$$

$$m = 3/4 \quad (-1, 5)$$

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

$$m = -1 \quad (9, 0)$$

$$1x + y = 9$$

$$m = 1/3 \quad (-6, 6)$$

$$-1x + 3y = 24$$



Example Set: C

Write the equation of the line(in standard form) that passes through the two points.

$$(2, 7), (1, 3)$$

$$-4x + y = -1$$

$$(-1, -3), (4, 5)$$

$$-8x + 5y = -7$$

$$(7, 9), (8, 11)$$

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

$$(-4, -2), (3, 8)$$

$$-10x + 7y = 26$$