

$$y = 2x + 3$$

$$(9) = 2(3) + 3$$

$$9 = 6 + 3$$

$$9 = 9 \checkmark$$

$$(-6) = 2(-5) + 3$$

$$-6 = -10 + 3$$

$$-6 = -7 \quad \times$$

$$\begin{matrix} (3, 9) \\ x \quad y \end{matrix}$$

yes on line

$$\begin{matrix} x \quad y \\ (-5, -6) \end{matrix}$$

no not on
the line

$$y = -x - 4 \quad (3, -7)$$

$$(-7) = -(3) - 4$$

$$-7 = -3 - 4$$

$$-7 = -7 \checkmark$$

$$(-3) = -(-1) - 4$$

$$-3 = 1 - 4$$

$$-3 = -3 \checkmark$$

$$(0) = -(-3) - 4$$

$$0 = 3 - 4$$

$$0 = -1 \quad \text{No}$$

$$(-1, -3)$$

$$(-3, 0)$$

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

$$(-6) = -\frac{1}{2}(2) - 5 \quad (2, -6) \checkmark$$

$$\begin{aligned} -6 &= -1 - 5 \\ -6 &= -6 \end{aligned}$$

$$(-4) = -\frac{1}{2}(-2) - 5 \quad (-2, -4) \checkmark$$

$$\begin{aligned} -4 &= 1 - 5 \\ -4 &= -4 \end{aligned}$$

$$(3) = -\frac{1}{2}(-16) - 5 \quad (-16, 3) \checkmark$$

$$\begin{aligned} 3 &= 8 - 5 \\ 3 &= 3 \end{aligned}$$

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

$$(6, 9)$$

$$-4(-3) + 3(-3) = 3$$

$$12 - 9 = 3$$

$$3 = 3 \checkmark$$

$$(-3, -3)$$

$$-4(1) + 3\left(\frac{7}{3}\right) = 3$$

$$\left(1, \frac{7}{3}\right)$$

$$-4 + 7 = 3$$

$$3 = 3 \checkmark$$