

1. Solve using elimination.

$$\begin{array}{r}
 2 \quad (4x + 3y = -5) \rightarrow 8x + 6y = -10 \\
 3 \quad (3x - 2y = -8) \rightarrow 9x - 6y = -24 \\
 \hline
 3(-2) - 2y = -8 \\
 -6 - 2y = -8 \\
 +6 \qquad \qquad +6 \\
 \hline
 -2y = -2 \\
 \frac{-2y}{-2} = \frac{-2}{-2} \\
 y = 1
 \end{array}$$

$$\begin{array}{r}
 8x + 6y = -10 \\
 9x - 6y = -24 \\
 \hline
 17x = -34 \\
 \frac{17x}{17} = \frac{-34}{17} \\
 x = -2 \\
 (-2, 1)
 \end{array}$$

$$2(3x - 5y = 4)$$

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

$$-2x + 3(-14) = 2$$

$$-2x - 42 = 2$$

$$+ 42 + 42$$

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$$-2x = 44$$

$$\frac{-2x}{-2} = \frac{44}{-2}$$

$$x = -22$$

$$6x - 10y = 8$$

$$-6x + 9y = 6$$


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$$-y = 14$$

$$\frac{-y}{-1} = \frac{14}{-1}$$

$$y = -14$$

$$(-22, -14)$$

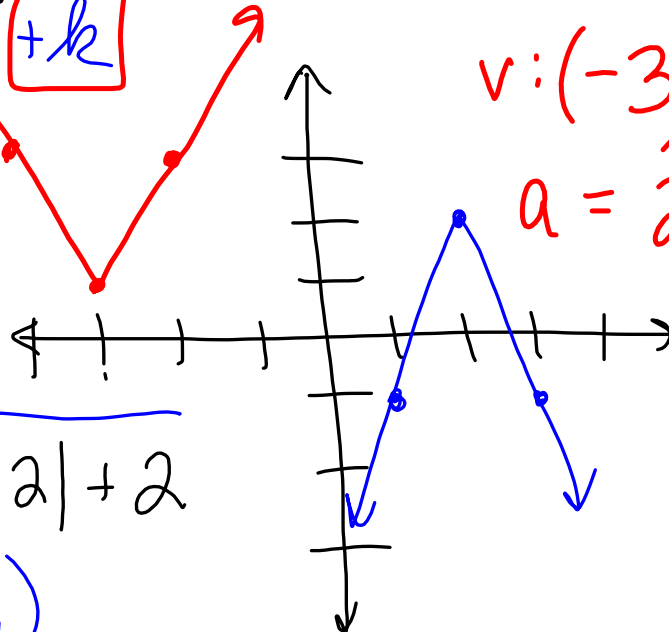
$$\begin{array}{l} -3(3x - 4y = -5) \\ 9x - 12y = 15 \end{array} \quad \begin{array}{l} \boxed{-9x + 12y = 15} \\ 9x - 12y = 15 \\ \hline 0 = 30 \\ \text{False} \\ \text{no solution} \end{array}$$

Graph  $y = 2|x + 3| + 1$

$$y = a|x - h| + k$$

$$v: (h, k)$$

$a = m$  of the right side



$$v: (-3, 1)$$

$$a = 2$$

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

$$v: (2, 2)$$

$$a = -3$$

$$y = 4|x - 1| + 2$$

up 2 units

$$v: (1, 0)$$
$$a = 4$$

