

NAME: _____

Math _____, Period _____

Mr. Rogove

Date: _____

INDEPENDENT PRACTICE: (SOLUTIONS)

$$\begin{cases} y = 3x - 5 \\ y = 6x + 8 \end{cases}$$

Eqn #1: $-18 = 3\left(-\frac{13}{3}\right) - 5$

$$-18 = -\frac{39}{3} - 5$$

$$-18 = -18$$

Eqn #2: $-18 = 6\left(-\frac{13}{3}\right) + 8$

$$-18 = -\frac{78}{3} + 8$$

$$-18 = -18$$

$$\left(-\frac{13}{3}, -18\right)$$

$$\begin{cases} y = -3x + 1 \\ -2y = 5x + 2 \end{cases}$$

Eqn #1: $-11 = -3(4) + 1$

$$-11 = -12 + 1$$

$$-11 = -11$$

Eqn #2: $-2(-11) = 5(4) + 2$

$$22 = 20 + 2$$

$$22 = 22$$

$$(4, -11)$$

$$\begin{cases} x = 4y + 9 \\ 3x = 2y - 17 \end{cases}$$

Eqn #1: $-\frac{43}{5} = 4\left(-\frac{22}{5}\right) + 9$

$$-\frac{43}{5} = -\frac{88}{5} + \frac{45}{5}$$

$$-\frac{43}{5} = -\frac{43}{5}$$

Eqn #2: $3\left(-\frac{43}{5}\right) = 2\left(-\frac{22}{5}\right) - 17$

$$-\frac{129}{5} = -\frac{44}{5} - \frac{85}{5}$$

$$-\frac{129}{5} = -\frac{129}{5}$$

$$\left(-\frac{43}{5}, -\frac{22}{5}\right)$$

$$\begin{cases} y = -6x + 32 \\ 3x - 5y = 30 \end{cases}$$

Eqn #1: $\left(-\frac{28}{11}\right) = -6\left(\frac{190}{33}\right) + 32$

$$-\frac{28}{11} = -\frac{380}{11} + \frac{352}{11}$$

$$-\frac{28}{11} = -\frac{28}{11}$$

Eqn #2: $3\left(\frac{190}{33}\right) - 5\left(-\frac{28}{11}\right) = 30$

$$\frac{190}{11} + \frac{140}{11} = \frac{330}{11}$$

$$\frac{330}{11} = \frac{330}{11}$$

$$\left(\frac{190}{33}, -\frac{28}{11}\right)$$

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$$\begin{cases} y = \frac{3}{2}x - 1 \\ 3y = x + 2 \end{cases}$$

$$\text{Eqn \#1: } \frac{8}{7} = \frac{3}{2} \left(\frac{10}{7} \right) - 1$$

$$\frac{8}{7} = \frac{15}{7} - \frac{7}{7}$$

$$\frac{8}{7} = \frac{8}{7}$$

$$\text{Eqn \#2: } 3 \left(\frac{8}{7} \right) = \frac{10}{7} + 2$$

$$\frac{24}{7} = \frac{10}{7} + \frac{14}{7}$$

$$\frac{24}{7} = \frac{24}{7}$$

$$\left(\frac{10}{7}, \frac{8}{7} \right)$$

$$\begin{cases} 7x - 8y = 112 \\ y = -2x + 9 \end{cases}$$

$$\text{Eqn \#1: } 7(8) - 8(-7) = 112$$

$$56 + 56 = 112$$

$$112 = 112$$

$$\text{Eqn \#2: } -7 = -2(8) + 9$$

$$-7 = -16 + 9$$

$$-7 = -7$$

$$(8, -7)$$