

Name: Answer Key

UNIT 5 DAY 12 - SCRABBLE FOUNDATIONS

LEVEL ONE

Determine whether the ordered pair is a solution to the system of equations. State Yes or No.

$$3x + y = 2$$

$$(-2, 8)$$

$$2x - 3y = -28$$

$$\begin{aligned} 3(-2) + 8 &= 2 \\ -6 + 8 &= 2 \\ 2 &= 2 \text{ yes} \end{aligned}$$

$$\begin{aligned} 2(-2) - 3(8) &= -28 \\ -4 - 24 &= -28 \\ -28 &= -28 \\ &\text{yes} \end{aligned}$$

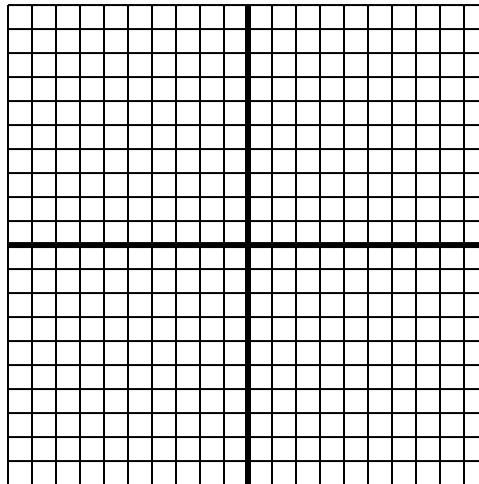
} yes

LEVEL TWO

$$x = -1$$

$$y = 5$$

$(-1, 5)$

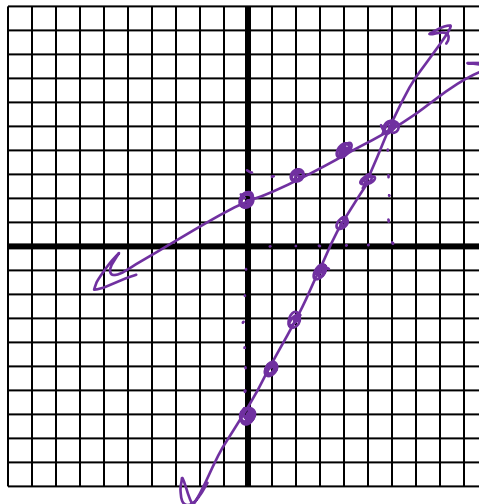


LEVEL THREE

$$\begin{cases} y - 2x = -7 \\ y = \frac{1}{2}x + 2 \end{cases}$$

$$y = 2x - 7$$

$(6, 5)$



Name: _____

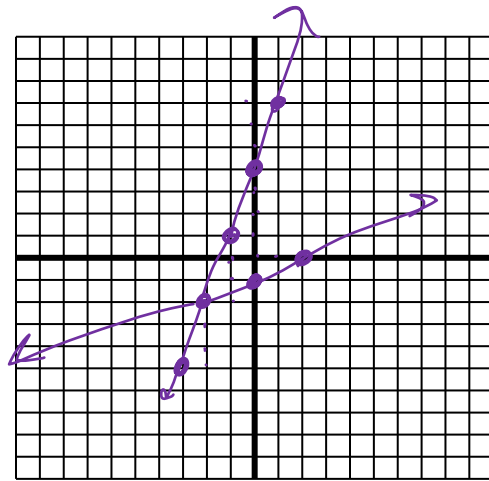
LEVEL FOUR

$$-3x + y = 4$$

$$y = 3x + 4$$

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

$$(-2, -2)$$



LEVEL FIVE: Use SUBSTITUTION Only

$$y = 9 - x$$

$$y = x - 5$$

$$9 - x = x - 5$$

$$14 = 2x$$

$$x = 7$$

$$y = 9 - 7$$

$$y = 2$$

LEVEL SIX: Use SUBSTITUTION Only

$$y = 1 - 2x$$

$$3x + y = 6$$

$$3x + 1 - 2x = 6$$

$$x = 5$$

$$y = 1 - 2(5)$$

$$y = 1 - 10$$

$$y = -9$$

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LEVEL SEVEN: Use **SUBSTITUTION** Only

$$y - 3x = 5$$

$$y = 3x + 5$$

$$2x + y = 0$$

$$2x + 3x + 5 = 0$$

$$5x = -5$$

$$x = -1$$

$$y = 3(-1) + 5$$

$$y = 2$$

LEVEL EIGHT: Use **ELIMINATION** Only

$$\begin{array}{l} 1(x + y = 1) \\ 2x + y = -2 \end{array}$$

$$\begin{array}{r} -x - y = -1 \\ 2x + y = -2 \\ \hline \end{array}$$

$$x = -3$$

$$x + y = 1$$

$$-3 + y = 1$$

$$y = 4$$

LEVEL NINE: Use **ELIMINATION** Only

$$\begin{array}{l} -2(x + 4y = 8) \\ 2x + 3y = 1 \end{array}$$

$$\begin{array}{r} -2x - 8y = -16 \\ 2x + 3y = 1 \\ \hline \end{array}$$

$$\begin{array}{l} -5y = -15 \\ y = 3 \end{array}$$

$$x + 4y = 8$$

$$x + 4(3) = 8$$

$$x + 12 = 8$$

$$x = -4$$