Name_____

SYSTEMS OF EQUATIONS #2

PART A: Find the solution to each of the systems of equations below. Circle your answer.

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1. $\begin{cases} x = 9 \\ x + 4y = 41 \end{cases}$

a. (8 , -9)

b. (9 , 8)

c. (8 , 9)

d. (9 , -8)

2. $\begin{cases} x + y = 15 \\ 2x - 4y = 48 \end{cases}$

a. (12 , 3)

b. (-1 , 16)

c. (19 , -4)

d. (18 , -3)

3. $\begin{cases} -4x + 4y = 24 \\ 8x - 2y = -24 \end{cases}$

a. (-1 , 5)

b. (-2 , 4)

c. (3 , 9)

d. (-12 , -6)

PART B: If two lines intersect on a coordinate plane at the point (2 , 5), which of the following systems of equations could represent the two lines?. Circle each system of equations that applies.

a. $\begin{cases} x = 2 \\ y = 5 \end{cases}$ *b.* $\begin{cases} y = x + 3 \\ x = y - 6 \end{cases}$ *c.* $\begin{cases} y = 2x + 1 \\ y = 3x - 1 \end{cases}$ *d.* $\begin{cases} x = y - 3 \\ 2y = 6x - 2 \end{cases}$ *e.* $\begin{cases} y = x + 3 \\ y = 2x \end{cases}$

PART C: Find the solution to the following system of equations:

$\begin{cases} x = 7 \\ x + y = 15 \end{cases}$

PART D: Find the solution to the following system of equations:

$\begin{cases} 4x + y = 41 \\ x + y = 14 \end{cases}$

PART E: Find the solution to the following system of equations:

$\begin{cases} 2x + 6y = 30 \\ 3x + 4y = 25 \end{cases}$