Name_

$1. \begin{cases} y = 5\\ 3x + y = 29 \end{cases}$	2. $\begin{cases} x - y = 12 \\ 6x + 2y = 0 \end{cases}$	3. $\begin{cases} -2x + 2y = 24 \\ 6x - 2y = -20 \end{cases}$
a. (8,-5)	a. (15,3)	a. (-12,0)
b. (5,8)	b. (3,-9)	b. (-1,11)
c. (8,5)	c. (6,-6)	c. (0, 12)
d. (5,-8)	d. (1,3)	d. (1,13)

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

PART B: If two lines intersect on a coordinate plane at the point (4, 10), which of the following systems of equations could represent the two lines?. Circle each system of equations that applies.

a. $\begin{cases} x = 4 \\ y = 10 \end{cases}$	$b. \begin{cases} y = x - 4 \\ x = y - 6 \end{cases}$	$c. \begin{cases} y = 2x + 2\\ y = x - 8 \end{cases}$	$d. \begin{cases} y = x - 4\\ 2x = 18 - y \end{cases}$	$e. \begin{cases} y = x + 6\\ y = 2.5x \end{cases}$
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PART C: Find the solution to the following system of equations:

 $\begin{cases} y = 2 \\ x + y = 12 \end{cases}$

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

 $\begin{cases} 3x + y = 36 \\ x + y = 12 \end{cases}$

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

 $\begin{cases} 2x + 6y = 20\\ 3x + 4y = 10 \end{cases}$