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$$\begin{array}{r} 1.) \quad 3x + y = 17 \\ \quad 4x - y = 18 \\ \hline \quad 7x = 35 \\ \quad 7 \quad 7 \end{array}$$

$$x = 5$$

$$\begin{array}{r} 3x + y = 17 \\ 3(5) + y = 17 \\ 15 + y = 17 \\ -15 \quad -15 \\ \hline \end{array}$$

$$y = 2$$

(T) 1 solution $(5, 2)$

$$\begin{array}{r} 3.) \quad -x - 7y = 18 \\ \quad 4x + 7y = -30 \\ \hline \quad 3x = -12 \\ \quad 3 \quad 3 \end{array}$$

$$x = -4$$

$$\begin{array}{r} -x - 7y = 18 \\ -(-4) - 7y = 18 \\ 4 - 7y = 18 \\ -4 \quad -4 \\ \hline -7y = 14 \\ -7 \quad -7 \end{array}$$

$$y = -2$$

(A) $(-4, -2)$
1 solution

$$\begin{array}{r} 5.) \quad x + 3y = 15 \\ \quad -1(-8x + 3y = -12) \\ \hline \end{array}$$

$$x + 3y = 15$$

$$8x - 3y = 12$$

$$\begin{array}{r} 9x = 27 \\ 9 \quad 9 \end{array}$$

$$x = 3$$

$$x + 3y = 15$$

$$\begin{array}{r} 3 + 3y = 15 \\ -3 \quad -3 \\ \hline \end{array}$$

$$\begin{array}{r} 3y = 12 \\ 3 \quad 3 \end{array}$$

$$y = 4$$

(R) $(3, 4)$ 1 solution

$$\begin{array}{r} 7.) \quad 3x + 2y = 0 \\ \quad 9x - 2y = 24 \quad \text{switch} \\ \hline \end{array}$$

$$3x + 2y = 0$$

$$9x - 2y = 24$$

$$\begin{array}{r} 12x = 24 \\ 12 \quad 12 \end{array}$$

$$x = 2$$

$$3(2) + 2y = 0$$

$$\begin{array}{r} 6 + 2y = 0 \\ -6 \quad -6 \\ \hline 2y = -6 \\ 2 \quad 2 \end{array}$$

$$y = -3$$

(M) $(2, -3)$

$$9.) \quad 4y + 4 = 7x \quad \text{rewrite} \quad -7x + 4y = -4$$

$$36 - 4y = 3x \quad \rightarrow \quad -3x - 4y = -36$$

$$\underline{-10x = -40}$$

$$\frac{-10x}{-10} = \frac{-40}{-10}$$

$$4y + 4 = 7x \quad x = 4$$

$$4y + 4 = 7(4)$$

$$4y + 4 = 28$$

$$\underline{-4 \quad -4}$$

$$\frac{4y = 24}{4 \quad 4}$$

$$y = 6$$

$$(B)$$

$$x, y$$

$$(4, 6)$$

$$11.) \quad 3x - 10y - 29 = 0$$

$$-(-11x - 10y + 13 = 0)$$

$$3x - 10y - 29 = 0$$

$$11x + 10y - 13 = 0$$

$$\underline{14x - 42 = 0}$$

$$+42 \quad +42$$

$$\frac{14x = 42}{14 \quad 14}$$

$$x = 3$$

$$3(3) - 10y - 29 = 0$$

$$9 - 10y - 29 = 0$$

$$\underline{-10y - 20 = 0}$$

$$+20 \quad +20$$

$$\frac{-10y = 20}{-10 \quad -10}$$

$$y = -2$$

$$(C)$$

$$1 \text{ solution}$$

$$(3, -2)$$

$$x \quad y$$