

Systems of Equations - Elimination with Multiplication Date _____ Period _____

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Solve each system by elimination.

1) $4x - 2y = 20$
 $-8x - 3y = 16$

2) $2x - 3y = -6$
 $-5x - 9y = 15$

3) $5x - 3y = -28$
 $4x + 6y = -14$

4) $-20x + 6y = -6$
 $-10x - 4y = 4$

5) $3x + 6y = 6$
 $9x - 12y = 18$

6) $-2x + 4y = -6$
 $-6x - 2y = -4$

7) $4x - 9y = -11$
 $3x - y = 9$

8) $6x + 8y = 26$
 $-7x + 2y = -19$

9) $-3x - 9y = -6$
 $-8x - 4y = 24$

10) $-6x - 8y = -28$
 $9x + 5y = -14$

$$\begin{aligned} 11) \quad & 4x + 8y = -4 \\ & -5x + 3y = -21 \end{aligned}$$

$$\begin{aligned} 12) \quad & -6x - 4y = -22 \\ & -4x - 9y = -2 \end{aligned}$$

$$\begin{aligned} 13) \quad & 9x + 6y = 15 \\ & -6x - 8y = 22 \end{aligned}$$

$$\begin{aligned} 14) \quad & -5x + 5y = -25 \\ & 3x + 2y = 10 \end{aligned}$$

$$\begin{aligned} 15) \quad & 7x + 7y = 0 \\ & -9x - 6y = 12 \end{aligned}$$

$$\begin{aligned} 16) \quad & -3x - 4y = 13 \\ & -8x - 7y = 9 \end{aligned}$$

$$\begin{aligned} 17) \quad & 0 = -30x + 4y - 2 \\ & -12y + 15x = -81 \end{aligned}$$

$$\begin{aligned} 18) \quad & -6x = 18 - y \\ & 9 = -3x - 8y \end{aligned}$$

$$\begin{aligned} 19) \quad & -4y - 17 = -7x \\ & -3x = 3y + 21 \end{aligned}$$

$$\begin{aligned} 20) \quad & 12 = 9y - 6x \\ & -4y + 3 = -5x \end{aligned}$$

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1) $4x - 2y = 20$
 $-8x - 3y = 16$

 $(1, -8)$

2) $2x - 3y = -6$
 $-5x - 9y = 15$

 $(-3, 0)$

3) $5x - 3y = -28$
 $4x + 6y = -14$

 $(-5, 1)$

4) $-20x + 6y = -6$
 $-10x - 4y = 4$

 $(0, -1)$

5) $3x + 6y = 6$
 $9x - 12y = 18$

 $(2, 0)$

6) $-2x + 4y = -6$
 $-6x - 2y = -4$

 $(1, -1)$

7) $4x - 9y = -11$
 $3x - y = 9$

 $(4, 3)$

8) $6x + 8y = 26$
 $-7x + 2y = -19$

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$$\begin{aligned} 11) \quad & 4x + 8y = -4 \\ & -5x + 3y = -21 \end{aligned}$$

$$(3, -2)$$

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$$\begin{aligned} 13) \quad & 9x + 6y = 15 \\ & -6x - 8y = 22 \end{aligned}$$

$$(7, -8)$$

$$\begin{aligned} 14) \quad & -5x + 5y = -25 \\ & 3x + 2y = 10 \end{aligned}$$

$$(4, -1)$$

$$\begin{aligned} 15) \quad & 7x + 7y = 0 \\ & -9x - 6y = 12 \end{aligned}$$

$$(-4, 4)$$

$$\begin{aligned} 16) \quad & -3x - 4y = 13 \\ & -8x - 7y = 9 \end{aligned}$$

$$(5, -7)$$

$$\begin{aligned} 17) \quad & 0 = -30x + 4y - 2 \\ & -12y + 15x = -81 \end{aligned}$$

$$(1, 8)$$

$$\begin{aligned} 18) \quad & -6x = 18 - y \\ & 9 = -3x - 8y \end{aligned}$$

$$(-3, 0)$$

$$\begin{aligned} 19) \quad & -4y - 17 = -7x \\ & -3x = 3y + 21 \end{aligned}$$

$$(-1, -6)$$

$$\begin{aligned} 20) \quad & 12 = 9y - 6x \\ & -4y + 3 = -5x \end{aligned}$$

$$(1, 2)$$