

Name : \_\_\_\_\_

## Systems of Equations - Cross Multiplication Method

Sheet 3

Solve each system of equations using cross multiplication method.

1)  $5a - 4b = 17$   
 $-3b = 7 + 2a$

\_\_\_\_\_

2)  $-3u + 8v = -28$   
 $-4v + 9u = 44$

\_\_\_\_\_

3)  $7s + 2t + 10 = 0$   
 $-6s + 9t = 30$

\_\_\_\_\_

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5)  $-w = 4 - 6v$   
 $-20 = -8v + 5w$

\_\_\_\_\_

7)  $2y - 7 = -3z$   
 $3z + 4y = 8$

\_\_\_\_\_

8)  $4m - 7n = 24$   
 $-36 - 8n = -5m$

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**Systems of Equations - Cross Multiplication Method**

Solve each system of equations using cross multiplication method.

$$\begin{aligned} 1) \quad & 5a - 4b = 17 \\ & -3b = 7 + 2a \end{aligned}$$

(1, -3)

$$\begin{aligned} 2) \quad & -3u + 8v = -28 \\ & -4v + 9u = 44 \end{aligned}$$

(4, -2)

$$\begin{aligned} 3) \quad & 7s + 2t + 10 = 0 \\ & -6s + 9t = 30 \end{aligned}$$

(-2, 2)

$$\begin{aligned} 5) \quad & -w = 4 - 6v \\ & -20 = -8v + 5w \end{aligned}$$

(0, -4)

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$$\begin{aligned} 7) \quad & 2y - 7 = -3z \\ & 3z + 4y = 8 \end{aligned}$$

( $\frac{1}{2}$ , 2)

$$\begin{aligned} 8) \quad & 4m - 7n = 24 \\ & -36 - 8n = -5m \end{aligned}$$

(20, 8)