

Name : _____

Systems of Equations - Cross Multiplication Method

Sheet 1

Solve each system of equations using cross multiplication method.

1) $11 = 8x + 5y$
 $3x - 4y = 10$

2) $-6m - 7n = 26$
 $4m - 3n = -25$

3) $-b = 5 - 2a$
 $-9a + 7b = 45$

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5) $3s + r = 5$
 $-6r + 9s = -30$

7) $v = 11 + w$
 $w = 19 - 2v$

8) $-3p + 6q = 21$
 $27 = -p - 8q$

Systems of Equations - Cross Multiplication Method

Solve each system of equations using cross multiplication method.

$$\begin{aligned} 1) \quad & 11 = 8x + 5y \\ & 3x - 4y = 10 \end{aligned}$$

(2, -1)

$$\begin{aligned} 2) \quad & -6m - 7n = 26 \\ & 4m - 3n = -25 \end{aligned}$$

 $(-\frac{11}{2}, 1)$

$$\begin{aligned} 3) \quad & -b = 5 - 2a \\ & -9a + 7b = 45 \end{aligned}$$

(16, 27)

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$$\begin{aligned} 5) \quad & 3s + r = 5 \\ & -6r + 9s = -30 \end{aligned}$$

(5, 0)

$$\begin{aligned} 7) \quad & v = 11 + w \\ & w = 19 - 2v \end{aligned}$$

(10, -1)

$$\begin{aligned} 8) \quad & -3p + 6q = 21 \\ & 27 = -p - 8q \end{aligned}$$

(-11, -2)