

Name : _____

Systems of Equations - Cramer's Rule

Sheet 2

Solve each system of equations using Cramer's rule.

1) $4m = 1 - n$
 $3m - 7 = -2n$

2) $4p = -23 - 5q$
 $q + 8p = 17$

3) $r + 7s = 28$
 $2r - 6s = 36$

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5) $-3d - 4c = -5$
 $5c = -23 - 7d$

7) $-47 = t - 8s$
 $s = -41 - 3t$

8) $2u - 9v + 46 = 0$
 $10v - u - 12 = 0$

Systems of Equations - Cramer's Rule

Solve each system of equations using Cramer's rule.

$$1) \quad \begin{aligned} 4m &= 1 - n \\ 3m - 7 &= -2n \end{aligned}$$

(-1, 5)

$$2) \quad \begin{aligned} 4p &= -23 - 5q \\ q + 8p &= 17 \end{aligned}$$

(3, -7)

$$3) \quad \begin{aligned} r + 7s &= 28 \\ 2r - 6s &= 36 \end{aligned}$$

(21, 1)

$$5) \quad \begin{aligned} -3d - 4c &= -5 \\ 5c &= -23 - 7d \end{aligned}$$

(8, -9)

$$7) \quad \begin{aligned} -47 &= t - 8s \\ s &= -41 - 3t \end{aligned}$$

(4, -15)

$$8) \quad \begin{aligned} 2u - 9v + 46 &= 0 \\ 10v - u - 12 &= 0 \end{aligned}$$

(-32, -2)

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