

Name : _____

Systems of Equations - Elimination Method

L1S3

Solve each system of equations using elimination method.

1) $u + v = 13$
 $u - v = 3$

2) $5m + 9n = -7$
 $5m - 3n = 1$

3) $-8x + 3y = -12$
 $-8x - y = 36$

4) $-4r + 7s = 24$
 $3r + 7s = -18$

5) $4c - 4d = 22$
 $-2c - 4d = 19$

6) $6a - b = 52$
 $6a + 9b = 12$

7) $5s - 2t = 47$
 $s - 2t = 11$

8) $9p + 3q = 7$
 $-9p - 6q = -8$

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Answer key

Systems of Equations - Elimination Method

L1S3

Solve each system of equations using elimination method.

1) $u + v = 13$
 $u - v = 3$

$(8, 5)$

2) $5m + 9n = -7$
 $5m - 3n = 1$

$\left(-\frac{1}{5}, -\frac{2}{3}\right)$

3) $-8x + 3y = -12$
 $-8x - y = 36$

$(-3, -12)$

4) $-4r + 7s = 24$
 $3r + 7s = -18$

$(-6, 0)$

5) $4c - 4d = 22$
 $-2c - 4d = 19$

$\left(\frac{1}{2}, -5\right)$

6) $6a - b = 52$
 $6a + 9b = 12$

$(8, -4)$

7) $5s - 2t = 47$
 $s - 2t = 11$

$(9, -1)$

8) $9p + 3q = 7$
 $-9p - 6q = -8$

$\left(\frac{2}{3}, \frac{1}{3}\right)$