

Solving Systems of Two Equations w/ Cramer's Rule Date _____ Period _____

Use Cramer's Rule to solve each system.

1) $x - 5y = -5$
 $-4x - 2y = 20$

2) $-x + 5y = 2$
 $x - 2y = -2$

3) $2x + 2y = 0$
 $4x - y = -20$

4) $3x - 4y = 1$
 $-5x + 2y = 3$

5) $-x - y = -1$
 $3x + 3y = 3$

6) $-5x + 5y = 10$
 $-2x + 2y = -4$

7) $-x + 4y = -2$
 $-2x + 5y = -4$

8) $-5x - 5y = 25$
 $-2x - 4y = 16$

9) $4x + 4y = -32$
 $2x + 2y = -16$

10) $7a - b = -1$
 $-4a - 2b = -2$

11) $4r + s = -14$
 $-5r - 5s = 25$

12) $x - 3y = 5$
 $-3x + 6y = 8$

13) $6a + b = -2$
 $5a + 6b = -2$

14) $2a - 3b = -8$
 $4a + 3b = -34$

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Use Cramer's Rule to solve each system.

1) $x - 5y = -5$
 $-4x - 2y = 20$

 $(-5, 0)$

2) $-x + 5y = 2$
 $x - 2y = -2$

 $(-2, 0)$

3) $2x + 2y = 0$
 $4x - y = -20$

 $(-4, 4)$

4) $3x - 4y = 1$
 $-5x + 2y = 3$

 $(-1, -1)$

5) $-x - y = -1$
 $3x + 3y = 3$

Infinitely many solutions

6) $-5x + 5y = 10$
 $-2x + 2y = -4$

No solution.

7) $-x + 4y = -2$
 $-2x + 5y = -4$

 $(2, 0)$

8) $-5x - 5y = 25$
 $-2x - 4y = 16$

 $(-2, -3)$

9) $4x + 4y = -32$
 $2x + 2y = -16$

Infinitely many solutions

10) $7a - b = -1$
 $-4a - 2b = -2$

 $(0, 1)$

11) $4r + s = -14$
 $-5r - 5s = 25$

 $(-3, -2)$

12) $x - 3y = 5$
 $-3x + 6y = 8$

 $\left(-18, -\frac{23}{3}\right)$

13) $6a + b = -2$
 $5a + 6b = -2$

 $\left(-\frac{10}{31}, -\frac{2}{31}\right)$

14) $2a - 3b = -8$
 $4a + 3b = -34$

 $(-7, -2)$