

Kuta Software - Infinite Algebra 1

Name _____

Solving Systems of Equations by Elimination

Date _____ Period _____

Solve each system by elimination.

1) $-4x - 2y = -12$
 $4x + 8y = -24$

2) $4x + 8y = 20$
 $-4x + 2y = -30$

3) $x - y = 11$
 $2x + y = 19$

4) $-6x + 5y = 1$
 $6x + 4y = -10$

5) $-2x - 9y = -25$
 $-4x - 9y = -23$

6) $8x + y = -16$
 $-3x + y = -5$

7) $-6x + 6y = 6$
 $-6x + 3y = -12$

8) $7x + 2y = 24$
 $8x + 2y = 30$

9) $5x + y = 9$
 $10x - 7y = -18$

10) $-4x + 9y = 9$
 $x - 3y = -6$

11) $-3x + 7y = -16$
 $-9x + 5y = 16$

12) $-7x + y = -19$
 $-2x + 3y = -19$



$$\begin{aligned} 13) \quad & 16x - 10y = 10 \\ & -8x - 6y = 6 \end{aligned}$$

$$\begin{aligned} 14) \quad & 8x + 14y = 4 \\ & -6x - 7y = -10 \end{aligned}$$

$$\begin{aligned} 15) \quad & -4x - 15y = -17 \\ & -x + 5y = -13 \end{aligned}$$

$$\begin{aligned} 16) \quad & -x - 7y = 14 \\ & -4x - 14y = 28 \end{aligned}$$

$$\begin{aligned} 17) \quad & -7x - 8y = 9 \\ & -4x + 9y = -22 \end{aligned}$$

$$\begin{aligned} 18) \quad & 5x + 4y = -30 \\ & 3x - 9y = -18 \end{aligned}$$

$$\begin{aligned} 19) \quad & -4x - 2y = 14 \\ & -10x + 7y = -25 \end{aligned}$$

$$\begin{aligned} 20) \quad & 3x - 2y = 2 \\ & 5x - 5y = 10 \end{aligned}$$

$$\begin{aligned} 21) \quad & 5x + 4y = -14 \\ & 3x + 6y = 6 \end{aligned}$$

$$\begin{aligned} 22) \quad & 2x + 8y = 6 \\ & -5x - 20y = -15 \end{aligned}$$

$$\begin{aligned} 23) \quad & -14 = -20y - 7x \\ & 10y + 4 = 2x \end{aligned}$$

$$\begin{aligned} 24) \quad & 3 + 2x - y = 0 \\ & -3 - 7y = 10x \end{aligned}$$



Answers to Kuta Solving Systems of Equations by Elimination

1. (6, -6)	2. (7, -1)	3. (10, -1)
4. (-1, -1)	5. (-1, 3)	6. (-1, -8)
7. (5, 6)	8. (6, -9)	9. (1, 4)
10. (9, 5)	11. (-4, -4)	12. (2, -5)
13. (0, -1)	14. (4, -2)	15. (8, -1)
16. (0, -2)	17. (1, -2)	18. (-6, 0)
19. (-1, -5)	20. (-2, -4)	21. (-6, 4)
22. Infinite number of solutions	23. (2, 0)	24. (-1, 1)

<https://cdn.kutasoftware.com/Worksheets/Alg1/Systems%20of%20Equations%20Elimination.pdf>

