

Elimination Worksheet Answer Key

We Are Very Able to Get Rid of Variables

Solve the following systems of equations by using elimination.

1. $x + 2y = 4$, $2x + 2y = 6$

$(2, 1)$

6. $3x + 8y = 24$, $6x + 8y = 12$

$(-4, \frac{9}{2})$

2. $3y + 4z = 12$, $9y + 5z = 15$

$(0, 3)$

7. $y = -10x + 1$, $-30x + 3 = 3y$

Infinitely many solutions.

3. $4x + 4y = 8$, $2x + y = 16$

$(14, -12)$

8. $4x + 4y = 4$, $x + y = 2$

No solution.

4. $x + y = 12$, $x - y = 16$

$(-14, 2)$

9. $2x + 2y = 8$, $4x + 4y = 16$

Infinitely many solutions.

5. $y + 4z = 20$, $y - 4z = 10$

$(15, \frac{5}{4})$

10. $6x + 12y = 15$, $3x + 4y = 6$

$(1, \frac{3}{4})$

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