

3.5 Elimination Method

Algebra 1

Name: _____

CA #2

Which method would be best for solving this system, Substitution or Elimination? Circle the part of the system that justifies your answer.

1.
$$\begin{aligned} 7x - 9y &= 5 \\ x - 3y &= 4 \end{aligned}$$

2.
$$\begin{aligned} x + 6y &= 10 \\ 3x - 6y &= -4 \end{aligned}$$

3.
$$\begin{aligned} 5x - 5y &= 15 \\ 5x + 7y &= 19 \end{aligned}$$

4.
$$\begin{aligned} 2x &= y \\ -5x + y &= 2 \end{aligned}$$

Solve each system of equations using ELIMINATION.

5.
$$\begin{aligned} 5x - 6y &= 9 \\ -4x + 3y &= 0 \end{aligned}$$

6.
$$\begin{aligned} x + 4y &= 10 \\ 5x &= 5y \end{aligned}$$

7.
$$\begin{aligned} 3x + 4y &= 3 \\ 2x - 6y &= 2 \end{aligned}$$

8.
$$\begin{aligned} 3x - y &= -3 \\ 9x - 3y &= -9 \end{aligned}$$

9.
$$\begin{aligned} -3x + 5y &= -9 \\ 4x - 6y &= 10 \end{aligned}$$

10.
$$\begin{aligned} -4x + 4y &= 16 \\ -3x + 6y &= 9 \end{aligned}$$

11. $12x + 6y = 14$
 $6x + 3y = 9$

12. $2x + y = 2$
 $x + 5y = 10$

13. $-2x + 4y = -2$
 $3x + 2y = -13$

Answers to 3.5 CA #2

1. Substitution	2. Elimination	3. Elimination	4. Substitution	5. $(-3, -4)$
6. $(2, 2)$	7. $(1, 0)$	8. Infinite Solutions	9. $(-2, -3)$	10. $(-5, -1)$
11. No Solution	12. $(0, 2)$	13. $(-3, -2)$		