

Section 9.3 Focus Exercises

Use the elimination method to find the solution, if possible. If the lines are parallel, indicate that by writing **inconsistent**; if the lines are the same line, indicate that by writing **dependent**. Also, verify your answers.

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

2.
$$\begin{aligned}2x - y &= -6 \\x + y &= 0\end{aligned}$$

3.
$$\begin{aligned}2x - 3y &= 7 \\x + 3y &= 5\end{aligned}$$

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

5.
$$\begin{aligned}4x + 2y &= 12 \\-2x - y &= -6\end{aligned}$$

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

7. $2x + y = 4$
 $6x - 2y = -3$

8. $4x - 3y = 9$
 $x - 2y = -4$

9. $3x - 10y = -17$
 $6x + 5y = 16$

10. $10x - 3y = -7$
 $5x + 2y = -7$

11. $6x - 2y = 3$
 $9x + 4y = 8$

12. $4x + 3y = -3$
 $8x + 5y = -4$

13. $3x - 4y = 2$
 $-2x + 3y = 0$

14. $-2x + 3y = 11$
 $7x - 2y = 4$

15. $2x - 6y = 22$
 $3x + 4y = -6$

16. $-6x + 5y = 4$
 $8x - 3y = 2$