

One, none, or many

Write the pair (x, y) , or say if there is no solution or infinitely many solutions.

1. $-4x + 2y = 24$, $2x + 2y = -12$

Answer: **$(-6, 0)$**

2. $y = -4x + 2$, $3y = -12x + 6$

Answer: **infinitely many solutions**

3. $-3x - 9y = -36$, $-x - 3y = -12$

Answer: **infinitely many solutions**

4. $y = 2x + 9$, $y = 2x - 6$

Answer: **no solution**

5. $-6x - 6y = 10$, $3x + 3y = -5$

Answer: **infinitely many solutions**

6. $8x - 4y = -27$, $-4x + 2y = 14$

Answer: **no solution**

7. $-3x + y = 10$, $6x - 2y = -20$

Answer: **infinitely many solutions**

8. $-x + 3y = 0$, $2x - 6y = 0$

Answer: **infinitely many solutions**

9. $y = -3x + 17$, $y = 5x - 15$

Answer: **$(4, 5)$**

10. $x - 3y = 9$, $3x - 9y = 27$

Answer: **infinitely many solutions**

11. $6x + 3y = 33$, $2x + y = 11$

Answer: **infinitely many solutions**

12. $-3x + 3y = -21$, $-2x - 5y = 7$

Answer: **$(4, -3)$**