

Solved for y

Both equations are solved for y. Write the pair (x, y).

1. $y = 4x$, $y = 2x - 2$

(x, y) = **(-1, -4)**

2. $y = 2x + 4$, $y = -x - 14$

(x, y) = **(-6, -8)**

3. $y = -3x + 25$, $y = 5x - 31$

(x, y) = **(7, 4)**

4. $y = x + 12$, $y = -5x - 12$

(x, y) = **(-4, 8)**

5. $y = -5x - 33$, $y = 4x + 21$

(x, y) = **(-6, -3)**

6. $y = 2x + 16$, $y = 4x + 32$

(x, y) = **(-8, 0)**

7. $y = 4x - 11$, $y = x + 1$

(x, y) = **(4, 5)**

8. $y = -5x - 17$, $y = -4x - 13$

(x, y) = **(-4, 3)**

9. $y = 5x + 10$, $y = x + 2$

(x, y) = **(-2, 0)**

10. $y = 3x + 2$, $y = x + 4$

(x, y) = **(1, 5)**

11. $y = 5x - 26$, $y = -5x + 24$

(x, y) = **(5, -1)**

12. $y = 3x + 11$, $y = 4x + 14$

(x, y) = **(-3, 2)**

Standard form

Both equations are in standard form. Write the pair (x, y) .

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

$(x, y) = \underline{\hspace{2cm} (-2, 0) \hspace{2cm}}$

2. $-3x - 5y = 9$, $-4x + y = -34$

$(x, y) = \underline{\hspace{2cm} (7, -6) \hspace{2cm}}$

3. $4x - 5y = 45$, $-5x + 4y = -45$

$(x, y) = \underline{\hspace{2cm} (5, -5) \hspace{2cm}}$

4. $-5x - y = -10$, $3x - 2y = 6$

$(x, y) = \underline{\hspace{2cm} (2, 0) \hspace{2cm}}$

5. $-x + 4y = -23$, $-2x + y = 3$

$(x, y) = \underline{\hspace{2cm} (-5, -7) \hspace{2cm}}$

6. $-3x + y = 23$, $x + 2y = -3$

$(x, y) = \underline{\hspace{2cm} (-7, 2) \hspace{2cm}}$

7. $4x + 3y = 1$, $-x + y = -9$

$(x, y) = \underline{\hspace{2cm} (4, -5) \hspace{2cm}}$

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

$(x, y) = \underline{\hspace{2cm} (-1, 1) \hspace{2cm}}$

9. $2x - 5y = 6$, $4x - 5y = 12$

$(x, y) = \underline{\hspace{2cm} (3, 0) \hspace{2cm}}$

10. $-x + 5y = 23$, $2x - y = -19$

$(x, y) = \underline{\hspace{2cm} (-8, 3) \hspace{2cm}}$

11. $-3x + 4y = -18$, $-x - y = 1$

$(x, y) = \underline{\hspace{2cm} (2, -3) \hspace{2cm}}$

12. $5x - y = 41$, $-2x - 3y = -13$

$(x, y) = \underline{\hspace{2cm} (8, -1) \hspace{2cm}}$

One, none, or many

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

1. $y = x - 2$, $y = x + 9$

Answer: no solution

2. $-2x - 3y = 8$, $-6x - 9y = 23$

Answer: no solution

3. $y = -3x - 11$, $y = -3x + 4$

Answer: no solution

4. $4x + 4y = -12$, $5x - 4y = -15$

Answer: $(-3, 0)$

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

Answer: $(0, 6)$

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

Answer: $(-2, -8)$

7. $-x - 4y = -1$, $2x + 8y = 5$

Answer: no solution

8. $-3x - 3y = -14$, $-6x - 6y = -27$

Answer: no solution

9. $4x - 8y = 1$, $2x - 4y = 0$

Answer: no solution

10. $-4x - 3y = -47$, $-5x + 4y = -20$

Answer: $(8, 5)$

11. $2y = -8x + 2$, $y = -4x + 1$

Answer: infinitely many solutions

12. $-2x - y = 14$, $-6x - 3y = 41$

Answer: no solution