

Solved for y

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

1. $y = -4x - 34$, $y = -3x - 27$

(x, y) = **(-7, -6)**

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

(x, y) = **(1, 0)**

3. $y = 5x + 20$, $y = x + 8$

(x, y) = **(-3, 5)**

4. $y = 3x - 21$, $y = 2x - 13$

(x, y) = **(8, 3)**

5. $y = x - 1$, $y = 2x + 6$

(x, y) = **(-7, -8)**

6. $y = -3x + 21$, $y = 3x - 27$

(x, y) = **(8, -3)**

7. $y = 3x - 16$, $y = 5x - 32$

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

8. $y = 4x - 19$, $y = 3x - 13$

(x, y) = **(6, 5)**

9. $y = x - 9$, $y = 2x - 15$

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

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

(x, y) = **(-1, 7)**

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

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

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

(x, y) = **(6, 7)**

Standard form

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

1. $2x - y = -6$, $-x + 3y = 3$

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

2. $2x + 3y = 31$, $-x - 2y = -18$

$(x, y) = \underline{\hspace{2cm} (8, 5) \hspace{2cm}}$

3. $-5x - 2y = 26$, $-4x - 5y = 14$

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

4. $4x - 2y = -28$, $5x - 4y = -35$

$(x, y) = \underline{\hspace{2cm} (-7, 0) \hspace{2cm}}$

5. $-2x - 2y = 8$, $-5x + y = 20$

$(x, y) = \underline{\hspace{2cm} (-4, 0) \hspace{2cm}}$

6. $5x - 5y = 0$, $-3x - 2y = 35$

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

7. $x + 4y = -15$, $3x - 5y = 6$

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

8. $-5x - 5y = 25$, $4x + 5y = -24$

$(x, y) = \underline{\hspace{2cm} (-1, -4) \hspace{2cm}}$

9. $2x - 5y = -15$, $-x + 2y = 7$

$(x, y) = \underline{\hspace{2cm} (-5, 1) \hspace{2cm}}$

10. $x + 4y = -7$, $-3x + 2y = 21$

$(x, y) = \underline{\hspace{2cm} (-7, 0) \hspace{2cm}}$

11. $-4x - 5y = 14$, $2x - 3y = -18$

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

12. $3x - 3y = -9$, $-x - y = -11$

$(x, y) = \underline{\hspace{2cm} (4, 7) \hspace{2cm}}$

One, none, or many

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

1. $y = 4x + 9, y = 4x - 8$

Answer: no solution

2. $y = 5x + 31, y = -2x - 4$

Answer: $(-5, 6)$

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

Answer: infinitely many solutions

4. $y = x - 3, y = 5x - 15$

Answer: $(3, 0)$

5. $2y = 4x + 6, y = 2x + 3$

Answer: infinitely many solutions

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

Answer: infinitely many solutions

7. $y = -x + 12, y = 3x - 12$

Answer: $(6, 6)$

8. $x + 3y = 13, -5x + 4y = 30$

Answer: $(-2, 5)$

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

Answer: infinitely many solutions

10. $3x + 3y = -47, x + y = -15$

Answer: no solution

11. $5x + 2y = -28, -5x + y = 46$

Answer: $(-8, 6)$

12. $-4x - 4y = -3, -12x - 12y = -9$

Answer: infinitely many solutions