

Solved for y

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

1. $y = -4x - 22$, $y = -x - 10$

(x, y) = **(-4, -6)**

2. $y = 5x - 23$, $y = x + 1$

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

3. $y = x + 12$, $y = -5x - 18$

(x, y) = **(-5, 7)**

4. $y = -x - 2$, $y = -2x - 10$

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

5. $y = 5x + 32$, $y = x$

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

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

(x, y) = **(5, -8)**

7. $y = 5x - 36$, $y = -2x + 13$

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

8. $y = -5x + 31$, $y = x - 5$

(x, y) = **(6, 1)**

9. $y = -x - 8$, $y = 5x + 22$

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

10. $y = x + 6$, $y = 3x + 2$

(x, y) = **(2, 8)**

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

(x, y) = **(-2, 1)**

12. $y = x + 1$, $y = 4x - 20$

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

Standard form

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

1. $5x - 3y = 38$, $x + y = 6$

$(x, y) = \underline{\hspace{2cm} (7, -1) \hspace{2cm}}$

2. $2x + 5y = -24$, $3x - 4y = 33$

$(x, y) = \underline{\hspace{2cm} (3, -6) \hspace{2cm}}$

3. $-3x + 3y = 9$, $5x - 3y = -7$

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

4. $3x + 3y = -30$, $-2x + y = 14$

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

5. $-x + 5y = 27$, $3x + 4y = 33$

$(x, y) = \underline{\hspace{2cm} (3, 6) \hspace{2cm}}$

6. $3x + 3y = -12$, $3x - 3y = -36$

$(x, y) = \underline{\hspace{2cm} (-8, 4) \hspace{2cm}}$

7. $-2x + 3y = 35$, $4x + 3y = -7$

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

8. $-5x + 3y = 0$, $3x + 4y = 29$

$(x, y) = \underline{\hspace{2cm} (3, 5) \hspace{2cm}}$

9. $-2x + 5y = 26$, $4x - 5y = -22$

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

10. $-5x + 5y = -15$, $3x - y = -3$

$(x, y) = \underline{\hspace{2cm} (-3, -6) \hspace{2cm}}$

11. $-2x - y = 10$, $-5x - y = 34$

$(x, y) = \underline{\hspace{2cm} (-8, 6) \hspace{2cm}}$

12. $-3x - 3y = 0$, $-x - 4y = -9$

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

One, none, or many

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

1. $9x + 3y = 9$, $3x + y = 3$

Answer: infinitely many solutions

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

Answer: $(-2, 0)$

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

Answer: no solution

4. $3x + 5y = 21$, $x + 3y = 15$

Answer: $(-3, 6)$

5. $4x + 3y = 4$, $8x + 6y = 8$

Answer: infinitely many solutions

6. $-5x - y = -15$, $-3x - 2y = -16$

Answer: $(2, 5)$

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

Answer: $(1, 1)$

8. $-x + 3y = 11$, $-2x + 6y = 25$

Answer: no solution

9. $y = -2x + 1$, $y = 4x + 13$

Answer: $(-2, 5)$

10. $2y = 8x + 10$, $y = 4x + 5$

Answer: infinitely many solutions

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

Answer: infinitely many solutions

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

Answer: no solution