

Algebra
Intro: Solving Systems by Substitution

Name _____
Date _____ Period _____

Solve the following systems of equation using substitution. Show all your work. Be sure to write your final answer as an ordered pair.

1.) $y = 5 - 4x$
 $3x - 2y = 12$

2.) $3x + 2y = 8$
 $x = 3y + 10$

3.) $3x - 4y = -15$
 $y = -5x - 2$

4.) $x = 2 - y$
 $3x + 2y = 5$

5.) $y = -x + 6$
 $x - 2y = -6$

6.) $y = 3x$
 $x + y = 8$

7.) $x = 3y - 5$
 $2x + y = 11$

8.) $y = x + 5$
 $y = -3x + 1$

9.) $2x = 3y$
 $x = 3y - 3$

10.) $y = -2x - 6$
 $3x + y = -10$

Answers:

Algebra Solving Systems by Substitution Answers

1. (2, -3)
2. (4, -2)
3. (-1, 3)
4. (1, 1)
5. (2, 4)
6. (2, 6)
7. (4, 3)
8. (-1, 4)
9. (3, 2)
10. (-4, 2)