

More substitution...

Name _____ Hr _____

Solve the systems using substitution.

Write your answer as an **ordered pair**, or write **no solutions** or **infinitely many solutions** if needed.

1. $y = 3x - 11$

solution

$$y = 3x - 13$$

4. $y = 8 - x$

solution

$$7 = 2x - y$$

2. $y = x + 3$

solution

$$3x + 4y = 26$$

5. $y = x + 2$

solution

$$2x + y = 8$$

3. $x = 4y$

solution

$$x + 2y = 66$$

6. Peter used substitution to solve this problem. Find his mistake and fix it.

$$y = 7x + 1$$

$$5x - y = 11$$

$$5x - 7x + 1 = 11$$

$$-2x + 1 = 11$$

$$\frac{-1}{-1} \quad \frac{-1}{-1}$$

$$\frac{-2x}{-2} = \frac{10}{-2}$$

$$x = -5$$

7. $y = 2x + 1$

solution

$$4x - 3y = 63$$

10. $y = 5x - 2$

solution

$$-2 = y - 5x$$

8. $y = -6x + 8$

solution

$$48 = 4x + 2y$$

11. $y = x - 7$

solution

$$3x + y = 17$$

9. $x = 4y + 2$

solution

$$2x - y = 25$$