

Name: _____ Date: _____ Period: _____

5.2 Practice B: Solving Systems by Substitution

Show your process!

Solve each system by substitution. Check your answer.

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

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

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

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

5. $2x + y = 8$
 $y = x - 7$

6. $y = -\frac{2}{3}x$
 $x + 2y = -1$

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7. $y = 5x - 2$
 $6x + 3y = 15$

8. $y = 2x$
 $4x + 2y = -32$

9. $y = 15 + x$
 $.25x + y = 10$

Write a system of equations to represent the situation. Then, solve the system.

10. The length of a rectangle is 3 more than its width. The perimeter of the rectangle is 58cm. What are the rectangle's dimensions?

11. Carla and Benicio work in a men's clothing store. They earn commission from each suit and each pair of shoes they sell. For selling 3 suits and one pair of shoes, Carla has earned \$47 in commission. For selling 7 suits and 2 pairs of shoes, Benicio has earned \$107 in commission. How much do the salespeople earn for the sale of a suit? For the sale of a pair of shoes?