

Practice Quiz 1.4-1.5

Solve the following equations. **Show all Steps!**

1. $2x + 5 = -3$

2. $18 - 7x = 4$

3. $2x + 3 = 4x - 15$

1. _____

2. _____

3. _____

4. $7x - 3 = 5x + 17$

5. $-(x + 2) = -8$

6. $6(x - 6) = -2x - 4$

4. _____

5. _____

6. _____

7. $\frac{x}{2} + 2 = -4$

8. $3(x - 1) = x + 7$

9. $\frac{4}{9}x - \frac{1}{3} = \frac{1}{3}x + \frac{4}{3}$

7. _____

8. _____

9. _____

10. A car repair bill was \$210. The cost for parts was \$75. The cost for labor was \$45 per hour. **How many hours did the repair work take?**

Define the variable: x represents _____

Equation: _____

Solution: _____

Solve the following equations for y. Show all Steps!

11. $3x + 2y = 6$

12. $3x - 5y = 15$

11. _____

12. _____

Solve the following equations for y, then find y given the value of x. Show all Steps!

13. $x - 2y = 5$; $x = 11$

14. $2x + 5y = 18$; $x = 9$

13. _____

14. _____

15. Solve the formula for the perimeter of a triangle for a .

$$P = a + b + c$$

16. Solve the distance formula for r .

$$D = r \cdot t$$

17. A taxi charges \$3.50 plus \$1.75 per mile. Your ride in the taxi costs \$21.00. **Write an equation and determine the length of the ride.**

Define the variable: x represents _____

Equation: _____

Length of the ride; _____