

Worksheet 1.4
Literal Equations
Practice Problems

Name _____

For #1-5, find the value of y by first substituting the value of x into the equation.

1. $3x - 7y = 8$; $x = -2$

2. $x = 12 - xy$; $x = 4$

3. $\frac{2}{3}x + \frac{1}{2}y = 6$; $x = 8$

4. $6x - 9y = 9$; $x = -3$

5. $-3x + 7 = 2y + 3$; $x = 4$

6. $2 + xy = 5x$; $x = -1$

For #7-12, solve the formula for the indicated variable.

7. Perimeter of an Equilateral Triangle

Solve for s : $P = 3s$

8. Volume of a Right Circular Cone

Solve for h : $V = \frac{\pi r^2 h}{3}$

9. Celsius to Fahrenheit

Solve for C : $F = \frac{9}{5}C + 32$

10. Volume of a Right Circular Cylinder

Solve for h : $V = \pi r^2 h$