

Algebra 2 – Chapter 1 Test Review

Study Guide

Evaluate each expression for the given values of the variables.

1. Evaluate $-4x + 10y$ for $x = -3$ and $y = 25$

$$\begin{aligned} -4(-3) + 10(25) \\ 12 + 250 \\ \boxed{262} \end{aligned}$$

2. Evaluate $8x + 5y^2$ for $x = 3$ and $y = -4$

$$\begin{aligned} 8(3) + 5(-4)^2 \\ 24 + 5(16) \\ 24 + 80 \\ \boxed{104} \end{aligned}$$

Solve the literal equation (formula) for the indicated variable.

3. Solve for x

$$2x - 7y = 20$$

$$\begin{aligned} -7y &= 20 - 2x \\ y &= \frac{20 - 2x}{-7} \\ \text{or } y &= \frac{2}{7}x - \frac{20}{7} \end{aligned}$$

4. Solve for w

$$V = \frac{1}{6}h^2w$$

$$\begin{aligned} 4V &= h^2w \\ \frac{4V}{h^2} &= w \end{aligned}$$

5. Solve for m

$$C = 25m - 15$$

$$\begin{aligned} C + 15 &= 25m \\ \frac{C + 15}{25} &= m \\ \text{or } \frac{C}{25} + \frac{3}{5} &= m \end{aligned}$$

Solve each equation.

6. $4.2x + 6.4 = 40$

$$\begin{aligned} 4.2x &= 33.6 \\ x &= 8 \end{aligned}$$

7. $4.5(x + 3) - 2 = 4(x + 3)$

$$\begin{aligned} 4.5x + 4.5 - 2 &= 4x + 12 \\ 4.5x + 2.5 &= 4x + 12 \\ 0.5x + 2.5 &= 12 \\ 0.5x &= 9.5 \\ x &= 19 \end{aligned}$$

8. $-3x + 2 = 2x + 3x + 94$

$$\begin{aligned} 7x + 2 &= 3x + 94 \\ 4x + 2 &= 94 \\ 4x &= 92 \\ x &= 23 \end{aligned}$$

9. $\frac{3}{4}x - 2 = \frac{1}{3}x + 7$

$$\begin{aligned} \frac{1}{4}x - 2 &= 7 \\ \frac{1}{4}x &= 9 \\ x &= 36 \end{aligned}$$

10. $\frac{3}{8} - \frac{4}{3}x + \frac{1}{6}$

$$\begin{aligned} \frac{1}{18} &= \frac{4}{3}x \\ \frac{1}{72} &= x \\ x &= -\frac{1}{72} \end{aligned}$$

11. $40x - 51 = 23 - 3(8x + 1)$

$$\begin{aligned} 24x - 20 &= 23 - 24x - 3 \\ 24x - 20 &= -24x + 20 \\ 48x - 20 &= 20 \\ 48x &= 40 \\ x &= \frac{5}{6} \approx .833 \end{aligned}$$

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**Barron's Educational Series, Brian
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