

Evaluating Expressions and Solving Equations
Algebra 2

Evaluate the following expressions given the indicated value for the variable.

1) $-17 + 3(x + 9)^2 \div 3$, $x = 4$

2) $6 \cdot 4^2 \div 12 - p$, $p = 12$

Solve the following equations, check your answers, and graph the solutions.

3) $x + 5 = 8$

4) $10 = z - 3$

5) $b + 7 = -4$

6) $-6 = t - 5$

7) $3v = 12$

8) $\frac{w}{5} = 6$

9) $-28 = 7y$

10) $-42 = \frac{g}{6}$

11) $-c = -11$

12) $-8 = \frac{w}{-5}$

13) $x^2 = 25$

14) $x^3 = 8$

15) $j^2 = -16$

16) $v^3 = -64$