

## Equation Development 5.1

Solve, check, and graph the following equations.

1)  $v - \sqrt{3} = 5 + 4\sqrt{3}$

2)  $\sqrt{6w} = 9$

3)  $\sqrt{3h} - 7 = 11$

4)  $2\sqrt{d} - 11 = -5$

5)  $\sqrt{a-5} = 4$

6)  $\sqrt[3]{t} = 7$

7)  $7|m| - 4 = 24$

8)  $|a - 7| = 15$

9)  $3|x + 11| - 14 = 55$

10)  $|2k| + 30 = 10$

Solve and graph the inequalities.

11)  $|x + 2| > 16$

12)  $|2x - 8| \geq 26$

13)  $|8x + 4| - 32 \leq -12$

14)  $-2|6x - 12| + 12 > -48$