

## Practice

**Solving Equations Containing Radicals***Solve each equation. Be sure to check for extraneous solutions.*

1.  $7x\sqrt{3} - 5 = 0$

2.  $4x - x\sqrt{3} = 6$

3.  $18 - 3x = x\sqrt{2}$

4.  $\sqrt{x+8} - 5 = 0$

5.  $\sqrt[3]{y-7} = 4$

6.  $\sqrt[4]{3x} - 2 = 0$

7.  $\sqrt{8n-5} - 1 = 2$

8.  $\sqrt{1-4t} - 8 = -6$

9.  $\sqrt[4]{7v-2} + 12 = 7$

10.  $\sqrt[3]{6u-5} + 2 = -3$

11.  $\sqrt{6x-4} = \sqrt{2x+10}$

12.  $\sqrt{9u-4} = \sqrt{7u-20}$

13.  $\sqrt{k+9} - \sqrt{k} = \sqrt{3}$

14.  $\sqrt{x+10} + \sqrt{x-6} = 8$

15.  $\sqrt{x+2} - 7 = \sqrt{x+9}$

16.  $\sqrt{4x^2 - 3x + 2} - 2x - 5 = 0$