## Practice B
**LESSON 6.6**
*For use with pages 452–459*

**Solve the equation. Check your solution.**

**1.** $\sqrt{x} + 3 = 12$

**2.** $x^{1/2} - 4 = 1$

**3.** $3\sqrt{x + 2} = 6$

**4.** $(2x - 3)^{1/2} + 2 = 2$

**5.** $5\sqrt{3x} = 15$

**6.** $3\sqrt{4 - 3x} = 21$

**7.** $7 - \sqrt{x - 4} = -6$

**8.** $\sqrt{3x + 4} + \frac{3}{2} = 3$

**9.** $2(x - 1)^{1/2} - 3 = 7$

**Solve the equation. Check your solution.**

**10.** $\sqrt[3]{x} + 1 = -2$

**11.** $4\sqrt[2]{x} + 2 = 0$

**12.** $\sqrt[3]{2x + 7} = 5$

**13.** $(x + 4)^{1/3} - 2 = -6$

**14.** $8\sqrt[2]{x} + 3 = 11$

**15.** $3x^{1/3} - 2 = -4$

**16.** $-2\sqrt[3]{2x + 5} + 7 = 15$

**17.** $\frac{1}{2}(5x + 1)^{1/3} + \frac{5}{2} = 4$

**18.** $6\sqrt[3]{x - 3} + 2 = \frac{1}{2}$

**Solve the equation. Check for extraneous solutions.**

**19.** $x^{5/3} = 243$

**20.** $x^{3/2} + 3 = 11$

**21.** $2x^{5/3} = -64$

**22.** $(x - 2)^{3/4} = 8$

**23.** $(2x + 12)^{2/3} - 3 = 13$

**24.** $(3x + 21)^{4/3} + 9 = 90$

**Solve the equation. Check for extraneous solutions.**

**25.** $\sqrt{x - 3} = \sqrt{2x - 7}$

**26.** $\sqrt{x + 3} = \sqrt{4x - 8}$

**27.** $\sqrt[3]{4x - 9} = \sqrt[3]{2x - 4}$

**28.** $\sqrt[4]{3x + 3} = \sqrt[4]{2x - 7}$

**29.** $\sqrt{x + 1} = \sqrt{3x - 3}$

**30.** $\sqrt[3]{3x + 9} = \sqrt[3]{x + 6}$

**31.** $x + 2 = \sqrt{2x + 7}$

**32.** $\sqrt{2x + 3} = 1 + \sqrt{x + 1}$

**In Exercises 33–35, use the following information.**

**Velocity** The velocity of a free falling object is given by $V = \sqrt{2gh}$ where $V$ is velocity (in meters per second), $g$ is acceleration due to gravity (in meters per second squared), and $h$ is the distance (in meters) the object has fallen. The value of $g$ depends on which body/planet is attracting the object. If an object hits the surface with a velocity of 30 meters per second, from what height was it dropped in each of the following situations?

**33.** You are on Earth where $g = 9.81$ m/s$^2$.

**34.** You are on the moon where $g = 1.57$ m/s$^2$.

**35.** You are on Mars where $g = 3.72$ m/s$^2$.

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