

## LESSON 11-1

### Practice and Problem Solving: A/B

- 32
- $(\sqrt{6x})^3$
- 16
- $\sqrt[4]{5r^3}$
- 9
- $10\sqrt{a}$
- $(\sqrt[5]{10})^8$
- $(\sqrt[5]{x^2})^2$
- $\frac{1}{\sqrt[3]{7x}}$
- $2^{\frac{7}{4}}$
- $(5x)^{\frac{3}{2}}$
- $51^{\frac{4}{5}}$
- $169^{\frac{3}{2}}$
- $(2v)^{\frac{3}{4}}$
- $(n^2)^{\frac{5}{6}}$
- $(3m)^{-\frac{3}{2}}$
- $36^2$
- $(5p)^{-\frac{7}{4}}$
- About 0.15c

## LESSON 11-2

### Practice and Problem Solving: A/B

- $-6\sqrt{3r}$
- 256
- 9
- $\frac{a^{\frac{5}{2}}b^{\frac{1}{2}}}{b^2}$  or  $\frac{a^{\frac{5}{2}}}{b^{\frac{3}{2}}}$
- 144
- $\frac{1}{3}$
- $25x$
- $\frac{3}{2}$
- $9x^3\sqrt{3xy^2}$
- $25xy\sqrt[3]{4x^2}$
- a.  $l = \frac{g}{4\pi f^2}$ ;  $l = \frac{8}{(\pi f)^2}$   
b. about 3 feet long

## LESSON 11-3

### Practice and Problem Solving: A/B

- $x = 43$
- $x = 20$
- $x = 6$
- $x = \frac{1}{2}$
- $x = -15$
- $x = \frac{1}{4}$
- No solutions, since both  $-1$  and  $-7$  are extraneous.
- $x = 32$
- $x = 7$
- $x = -52$
- $x = 1$
- $x = 40$
- $x = 8$
- no solution
- 25 years