

p. 508 cont.

6.

$$k = \frac{3}{4}$$

$$9420 \left(\frac{27}{64} \right) = 3974.06 \text{ cm}^3$$

$$k^3 = \frac{27}{64}$$

7.

a) $k = 1.5$
 $k^3 = 3.375$

b) $k = 1.5$
 $k^2 = 2.25$

c) $k = 1.5$

8.

$$k = 3$$

$$k^2 = 9$$

$$k^3 = 27$$

surface area

volume