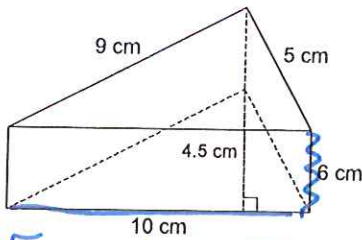


Volume & Spheres Review

$V = Bh$

Find the volume of each figure. Round your answers to the nearest hundredth, if necessary.

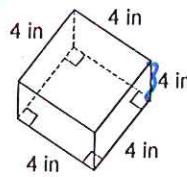
1)



$$V = \left[\frac{1}{2} (10) (4.5) \right] 6$$

$$V = 135 \text{ cm}^3$$

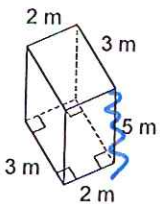
2)



$$V = 4(4)(4)$$

$$V = 64 \text{ in}^3$$

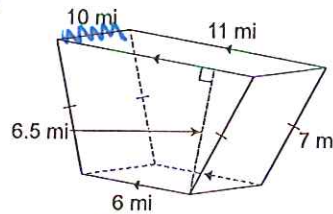
3)



$$V = 3(2)(5)$$

$$V = 30 \text{ m}^3$$

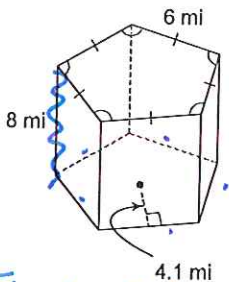
4)



$$V = \left[\frac{1}{2} (10 + 6) (4.5) \right] 10$$

$$V = 552.5 \text{ mi}^3$$

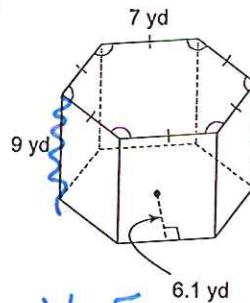
5)



$$V = \left[\frac{1}{2} (30) (4.1) \right] 8$$

$$V = 492 \text{ mi}^3$$

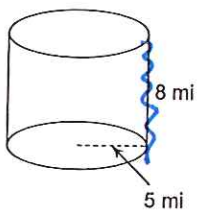
6)



$$V = \left[\frac{1}{2} (42) (6.1) \right] 9$$

$$V = 1,152.9 \text{ yd}^3$$

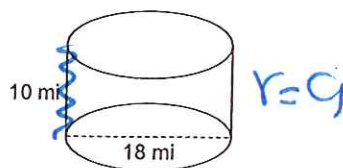
7)



$$V = \pi (5)^2 \cdot 8$$

$$V = 200\pi \text{ mi}^3$$

8)



$$r = 9$$

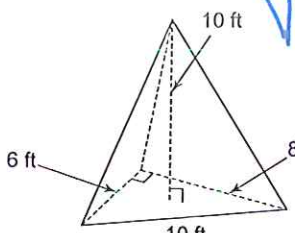
$$V = \pi (9)^2 \cdot 10$$

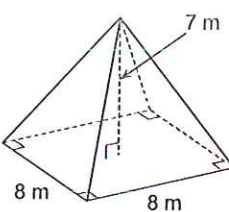
$$V = \pi \cdot 81 \cdot 10$$

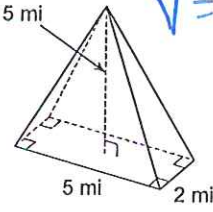
$$V = 810\pi \text{ mi}^3$$

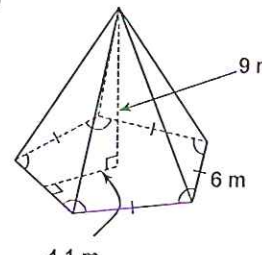
$$V = \frac{1}{3} B h$$

Find the volume of each figure. Round your answers to the nearest tenth, if necessary.

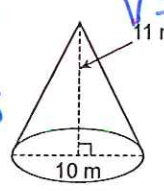
9)  $V = \frac{1}{3} [\frac{1}{2} (8 \cdot 8)] 10$
 $V = \frac{1}{3} (240)$
 $V = 80 \text{ ft}^3$

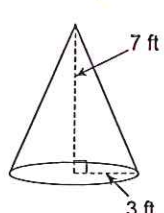
10)  $V = \frac{1}{3} (8 \cdot 8) 7$
 $V = \frac{1}{3} 448$
 $V = 149.3 \text{ m}^3$

11)  $V = \frac{1}{3} (2 \cdot 2) 5$
 $V = \frac{1}{3} (20)$
 $V = 6.7 \text{ mi}^3$

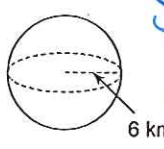
12)  $V = \frac{1}{3} [\frac{1}{2} (4.1)(6)] 9$
 $V = \frac{1}{3} (113.7)$
 $V = 37.9 \text{ m}^3$

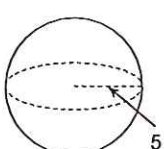
Find the volume of each figure. Round your answers to the nearest tenth, if necessary. Leave your answers in terms of π for answers that contain π .

13)  $V = \frac{1}{3} \pi (5)^2 11$
 $V = \frac{1}{3} (275) \pi$
 $V = 91.7 \pi \text{ m}^3$

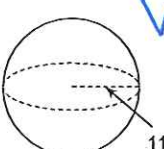
14)  $V = \frac{1}{3} \pi (3)^2 7$
 $V = \frac{1}{3} (63) \pi$
 $V = 21 \pi \text{ ft}^3$

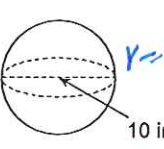
Find the surface area of each figure. Round your answers to the nearest tenth, if necessary. Leave your answers in terms of π for answers that contain π .

15)  $SA = 4 (6)^2 \pi$
 $SA = 144 \pi \text{ km}^2$

16)  $SA = 4 (5)^2 (\pi)$
 $SA = 100 \pi \text{ cm}^2$

Find the volume of each figure. Round your answers to the nearest tenth, if necessary. Leave your answers in terms of π for answers that contain π .

17)  $V = \frac{4}{3} \pi (11)^3$
 $V = 1774.0 \pi \text{ mi}^3$

18)  $V = \frac{4}{3} \pi (5)^3$
 $V = 523.6 \pi \text{ in}^3$