

Name: _____

Date _____

Volume

Copy the formulas from your notes.

Cylinder:

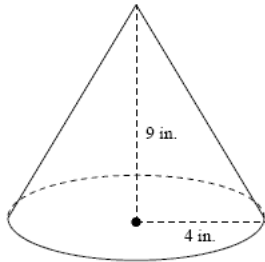
Sphere:

Cone:

Note: $\frac{1}{3} \neq .3$ (you must use the fraction)

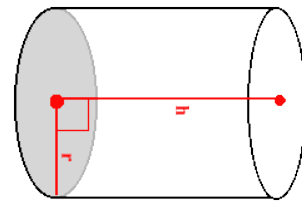
For each figure plug in the given lengths and solve to find the missing value. Show all of your work. Use 3.14 for π . Use correct units.

1) Find the volume.



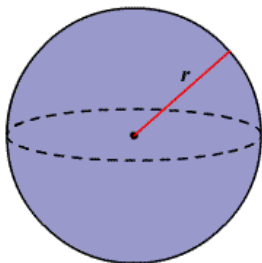
Volume: _____

2) Find the height if the radius is 5 feet and the volume is 471 ft^3



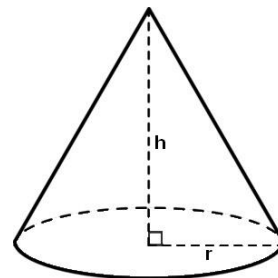
Height: _____

3) Find the volume of the sphere if the radius is 3 yards.



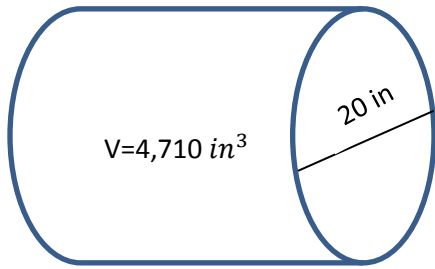
Volume: _____

4) Find the radius if the height is 12 inches and the volume is 113.04 in^3



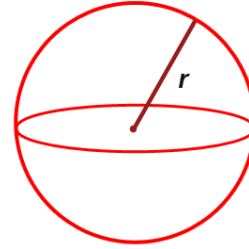
Radius: _____

5) Find the height.



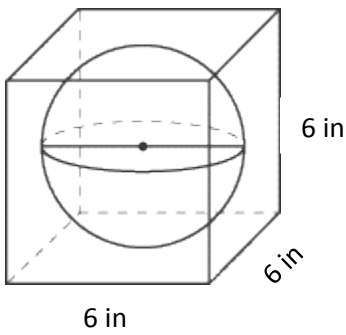
Height: _____

6) What is the radius if the volume is 3052.08 cm^3 ?

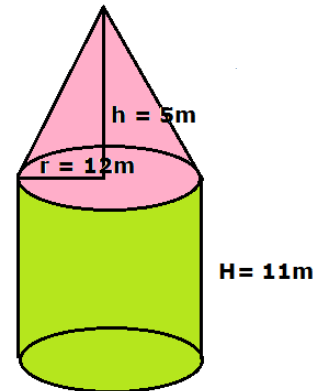


Radius: _____

7) A sphere fits snugly inside a 6 inch cube as shown. what is the volume of the region inside the cube but outside the sphere?



8) Find the volume of the figure below.



- 9) 602.88 cm^3 of soup can fit in a soup can with a diameter of 4 cm.
What is the height of the soup can?

- 10) How much water can the water tower below hold?

