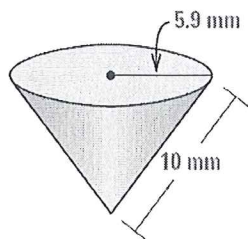


Name: Solutions Only

HW: Basic Surface Area & Volume of Cylinders, Cones, and Spheres

Directions: Identify each figure, find the surface area and volume of the following figures. You must write the formula you used first. Keep all answers in terms of pi, then show the rounded value to the nearest thousandth.

1.



You must have all

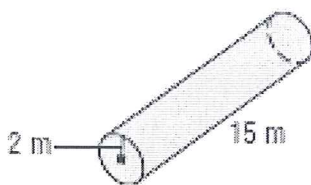
Identify: _____

Surface Area: $93.81\pi \text{ mm}^2$
exact

Volume: 294.322 mm^3
rounded

Work. These are only the solutions. You should use notes to help! ♥

2.

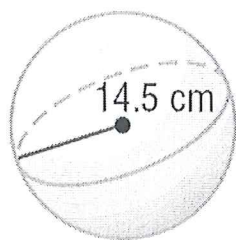


Identify: _____

Surface Area: $68\pi \text{ m}^2$

Volume: $60\pi \text{ m}^3$

3.

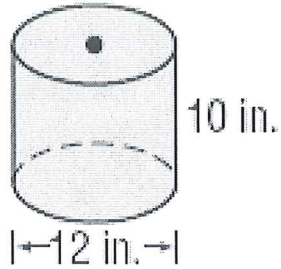


Identify: _____

Surface Area: $841\pi \text{ cm}^2$

Volume: $4064.8\bar{3}\pi \text{ cm}^3$

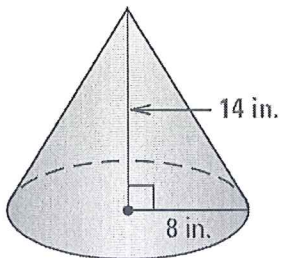
4.



Identify: _____

Surface Area: $192\pi \text{ in}^2$ Volume: $360\pi \text{ in}^3$

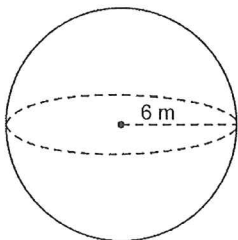
5.



Identify: _____

Surface Area: 606.315 in^2
roundedVolume: $\frac{896\pi}{3}$ or $298.\bar{6}\pi \text{ in}^3$
exact

6.



Identify: _____

Surface Area: $144\pi \text{ m}^2$ Volume: $288\pi \text{ m}^3$