

Name : \_\_\_\_\_

## Volume - Sphere and Hemisphere

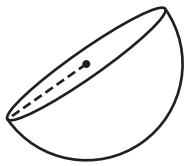
L152

A) Find the indicated measure. Round your answer to the nearest tenth.

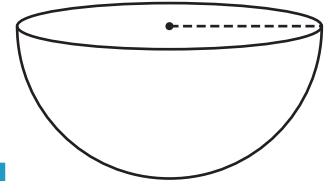
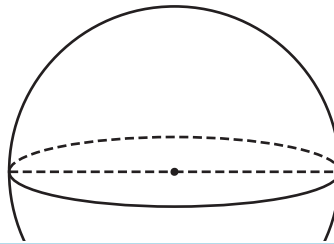
1) Volume =  $5.33\pi$  ft<sup>3</sup>

2) Volume =  $972\pi$  yd<sup>3</sup>

3) Volume =  $8,111.33\pi$  in<sup>3</sup>



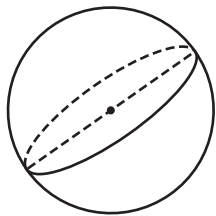
radius = \_\_\_\_\_



radius = \_\_\_\_\_

4) Volume =  $1,774.67\pi$

Volume =  $2,730.67\pi$  yd<sup>3</sup>



diameter = \_\_\_\_\_

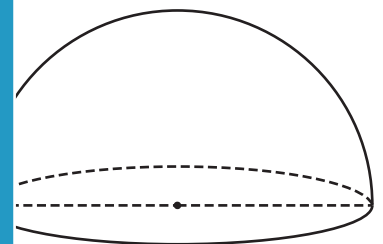
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diameter = \_\_\_\_\_

7) The volume of a hemisphere is  $1,774.67\pi$  yd<sup>3</sup>.

Find the diameter of the hemisphere.

8) Determine the diameter of a sphere whose volume is  $9,145.33\pi$  cubic yards. Round your answer to the nearest tenth.