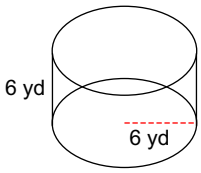
Math 9: Unit 5 Measurement Name_____

Homework #3 - Cylinders and Cones

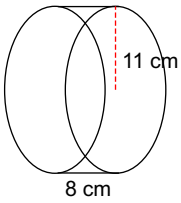
Date_____ 5A____

Calculate the surface area and volume of each figure. Round to the nearest tenth.

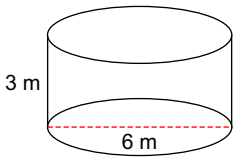
1)



2)



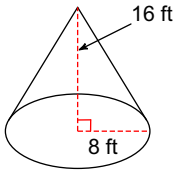
3)



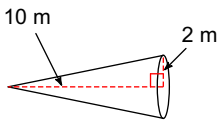
4) A cylinder with a radius of 3 ft and surface area of 150.72 ft^2. How tall is the cylinder?

Calculate the surface area and volume of each figure. Round to the nearest tenth.

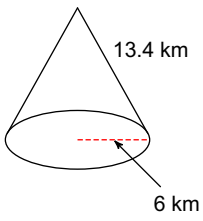
5)



6)



7)



8) What radius would a 12*in* tall cone need to have a volume of 201.96in^2?

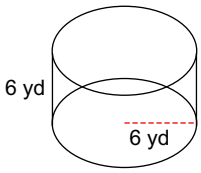
Math 9: Unit 5 Measurement Name_____

Homework #3 - Cylinders and Cones

Date_____ 5A____

Calculate the surface area and volume of each figure. Round to the nearest tenth.

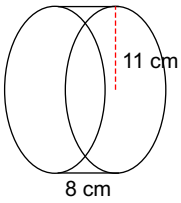
1)



SA= 452.4 yd²

V = 678.24 yd³

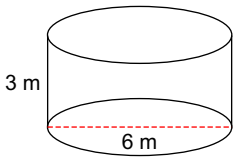
2)



SA = 1313.2 cm²

V = 3039.52 cm³

3)



V= 84.8 m³

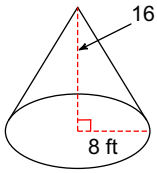
SA = 113.04 m²

4) A cylinder with a radius of 3 *ft* and surface area of 150.72 ft^2. How tall is the cylinder?

5 *ft*

Calculate the surface area and volume of each figure. Round to the nearest tenth.

5)

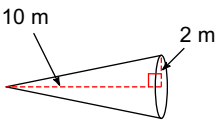


s = 17.89

V = 1072.3 ft³

SA = 650.4 ft²
or
648.2 ft²

6)

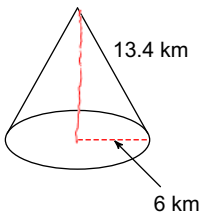


s = 10.2 m
(10.19)

V = 41.9 m³

SA = 76.6 m²

7)



h = 11.98 km

SA = 365.7 km²

V = 451.41 km³

8) What radius would a 12*in* tall cone need to have a volume of 201.96in^3?

4*in*