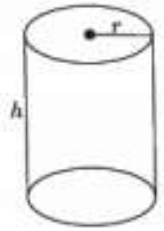
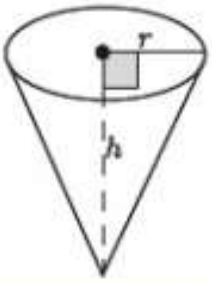
Advanced Math Module 7
Volume of Cylinders and Cones NOTES/PRACTICE

Lesson Summary

The formula to find the volume, V, of a right circular cylinder is $V = \pi r^2 h = Bh$, where B is the area of the base.



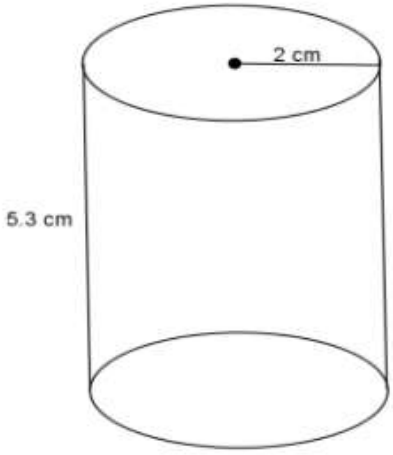
The formula to find the volume of a cone is directly related to that of the cylinder. Given a right circular cylinder with radius r and height h, the volume of a cone with those same dimensions is one-third of the cylinder. The formula for the volume, V, of a circular cone is $V = \frac{1}{3}\pi r^2 h$. More generally, the volume formula for a general cone is $V = \frac{1}{3}Bh$, where B is the area of the base.



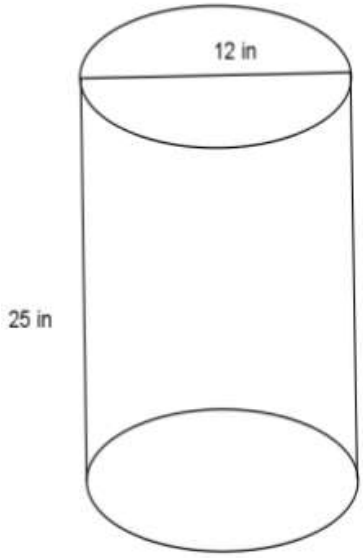
******READ THROUGH THE G8-M5-LESSON 10 HOMEWORK HELPER <u>BEFORE</u> COMPLETING THE PRACTICE BELOW.******

Find the volume of the following figures. Show all work (WRITE THE FORMULA FIRST.) Volumes should be written in terms of pi.

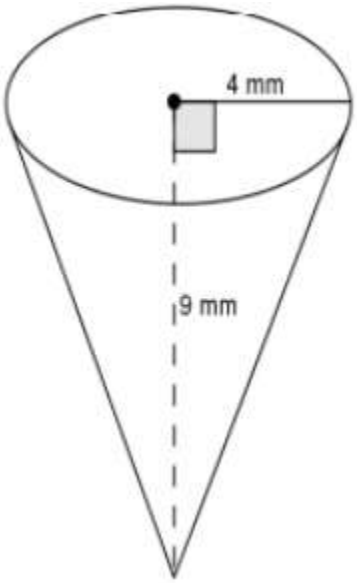
1.



2.



3.



4. Round your answer to the nearest hundredth.