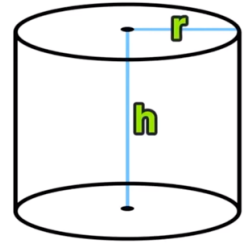


Name: _____

Lesson Guide

This lesson guide accompanies the following video lesson:



Practice with Cylinder Formulas

Formula Reference

VOLUME

$$V = \pi r^2 h$$

cubic units

SURFACE AREA

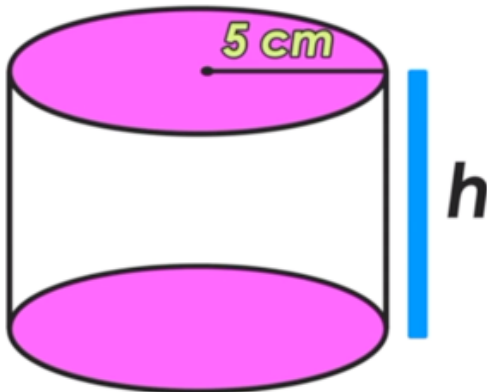
$$A = 2\pi r(h + r)$$

square units

Practice Problem #1

A cylinder has a diameter of 10 centimeters and a volume of 225π cubic centimeters.

What is the height, in centimeters, of the cylinder?



$h =$ _____

YOUR TURN!

Practice Problem #2

A cylinder has a diameter of 34 meters and a volume of $8,0925\pi$ cubic meters.

What is the height, in meters, of the cylinder?

$h =$ _____

Practice Problem #3

A cylinder has a height of 12 inches and a surface area of 170π square feet.

What is the radius, in feet, of the cylinder?

$r =$ _____

ANSWER KEY

Practice Problem #1: 9 cm

Practice Problem #2: 28 meters

Practice Problem #3: 5 feet