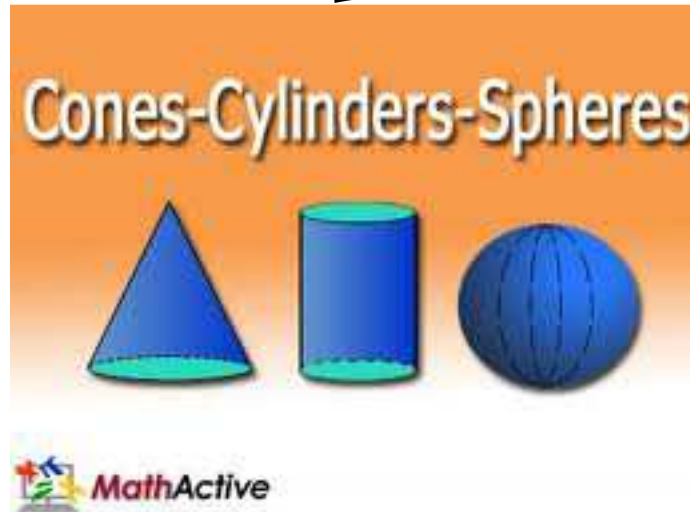


Unit 7 Notes

3D Geometry - Volume of Cylinders, Cones, and Spheres



Tentative Schedule

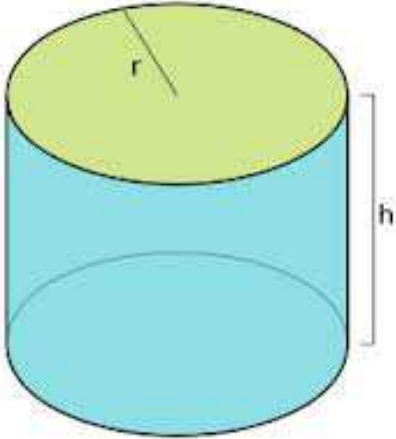
Day	Classwork	Assignment
Fri. 2/27 Mon. 3/2	Test #6	Video #7.1: 3D Geometry Day 1 with Notes 7.1
Tues. 3/3	P.S. #7.1	Video #7.2: 3D Geometry Day 2 with Notes 7.2
Wed. 3/4 Thurs. 3/5	P.S. #7.2	Finish P.S. #7.2 and Optional Review Sheet
Fri. 3/6	Quiz #7	TBD

Name: _____

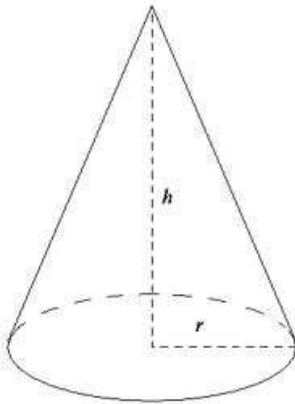
Notes 7.1 - 3D Geometry Day 1

Volume Formulas

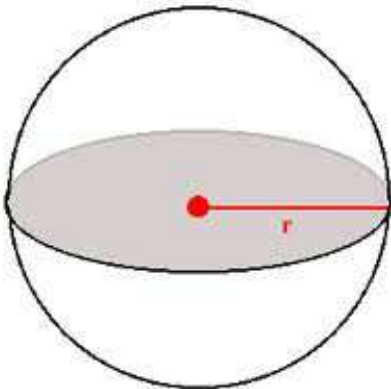
Cylinder



Cone



Sphere



- 1.) Find the volume of a cylinder that has a height of 30 inches and a radius of 4 inches. Express your answer in two ways: as an exact answer and rounded to the nearest whole number.

Exact Answer: _____

Nearest Whole Number: _____

- 2.) Find the volume a cone that has a height of 30 inches and a radius of 4 inches. Express your answer as an exact answer.

- 3.) Find the volume of a sphere that has a radius of 3 inches. Round to the nearest thousandth.

Notes 7.2 - 3D Geometry Day 2

1.) Find the volume of a perfect sphere that has a radius of $9 \cdot 10^5$ units.

2.) Find the volume of a cylinder that has a radius of $4.7 \cdot 10^5$ and a height of $3.6 \cdot 10^4$.

3.) Find the combined volume of two spheres: one that has a radius of $3.1 \cdot 10^4$ units and another that has a $6.7 \cdot 10^3$.