

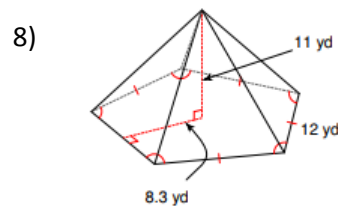
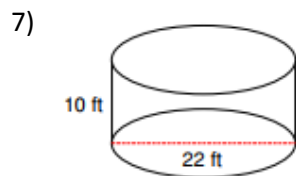
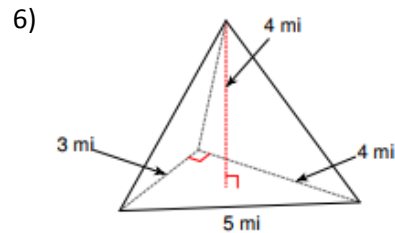
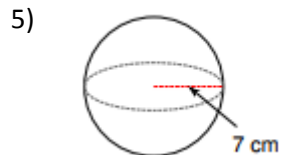
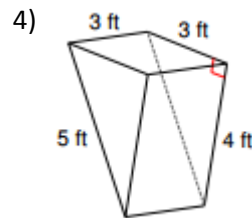
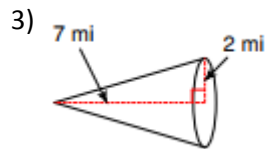
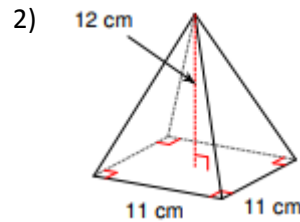
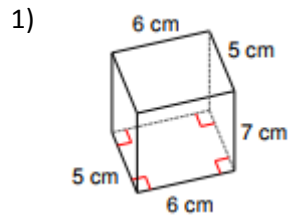
Volume - IM2

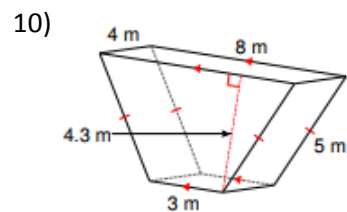
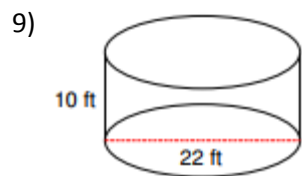
Name _____

Volume of Flat Solids (prisms & cylinders)	Volume of Pointy Solids (pyramids & cones)	Volume of Spheres
$V = B \cdot h$	$V = \frac{1}{3} \cdot B \cdot h$	$V = \frac{4}{3} \cdot \pi \cdot r^2$

Where B = area of the base,
 h = height measured
 perpendicular to the base,
 and r is the radius.

Find the volume of each solid. Write answers using π or simplest radical form (unless decimals are given in the problem).





13) Find the radius of a cylinder with a volume of $108\pi \text{ ft}^3$ and a height of 12 ft.

14) Find the height of a cylinder with a volume of 100 cm^3 and a radius of 2 cm.

15) A sphere and a cube have the same surface area. Which has the greater volume? Show evidence to support your answer.

16) A *tetrahedron* is a triangular pyramid where all the edges and angles are congruent. What is the volume of a tetrahedron with edges length 8?