

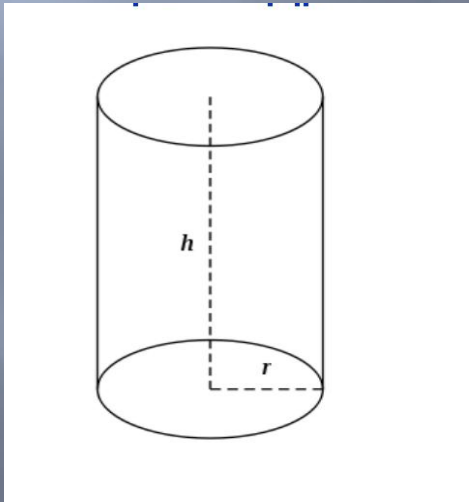
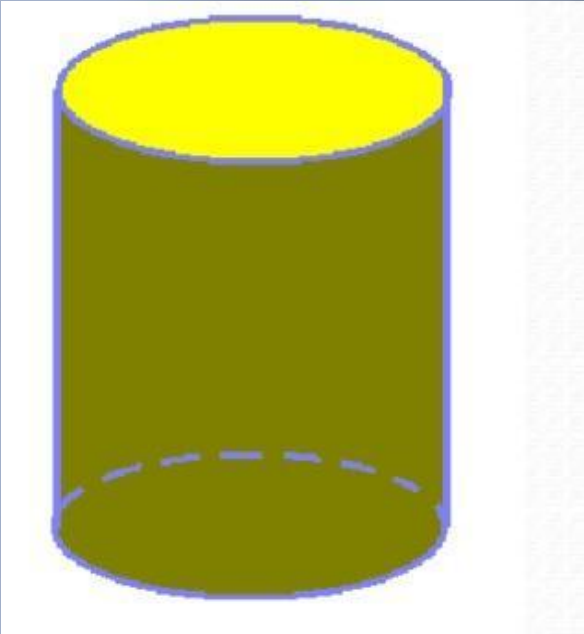
CYLINDER AND CONE

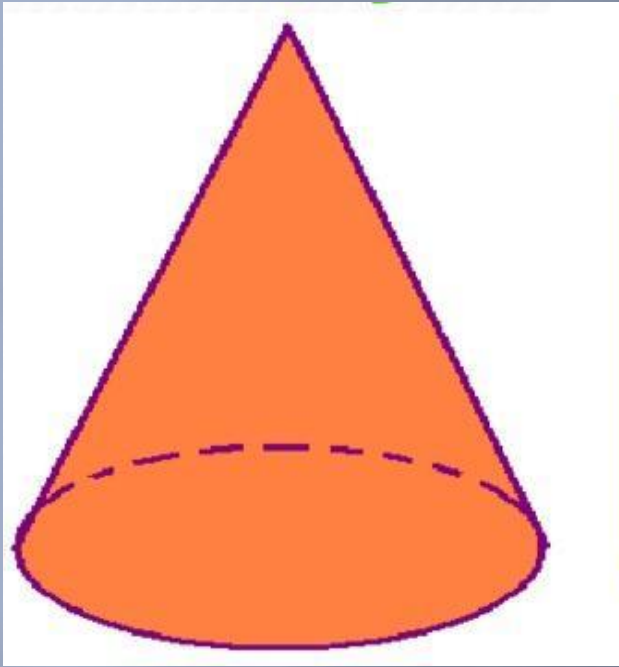


Cylinder

Cylinder is a body of rotation. We have a rectangle and we rotate it around its side. We get cylindrical surface and two circles, called bases of cylinder.

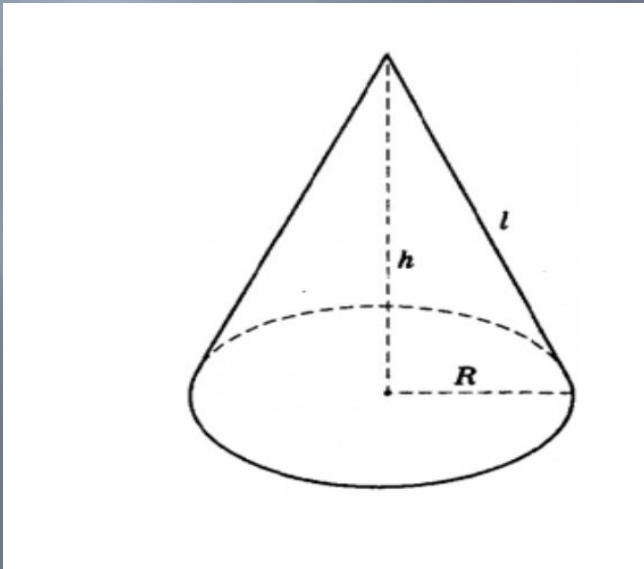
H is height of cylinder.
R is its radius





Cone

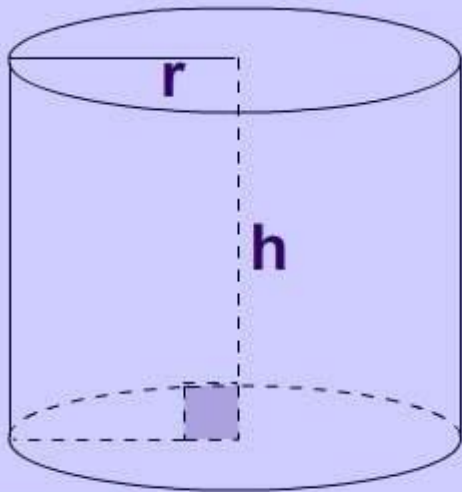
Cone is a geometric body that is formed when a rectangular triangle rotates around its cathetus.



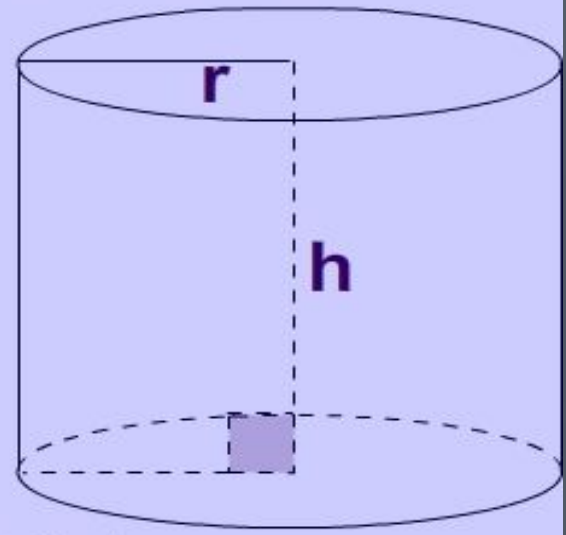
H is height, R is radius and l is generatrix of cone.

You need to know

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



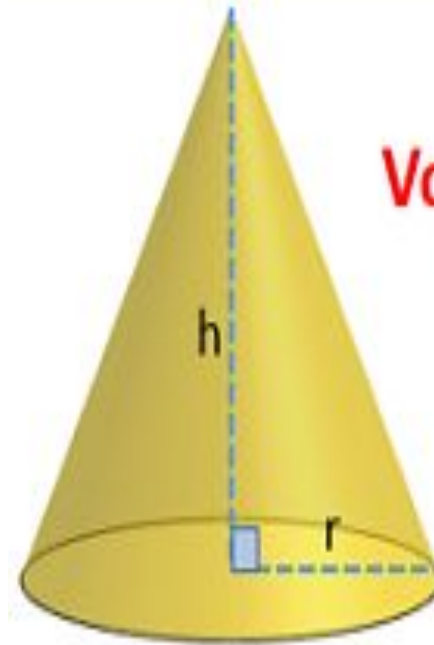
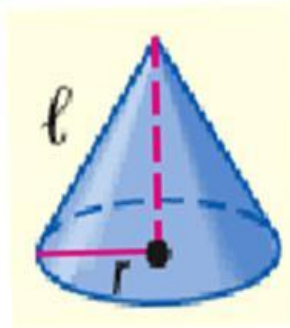
$$V = \pi r^2 h$$



Volume of cone

Formula for Surface
Area of a cone:

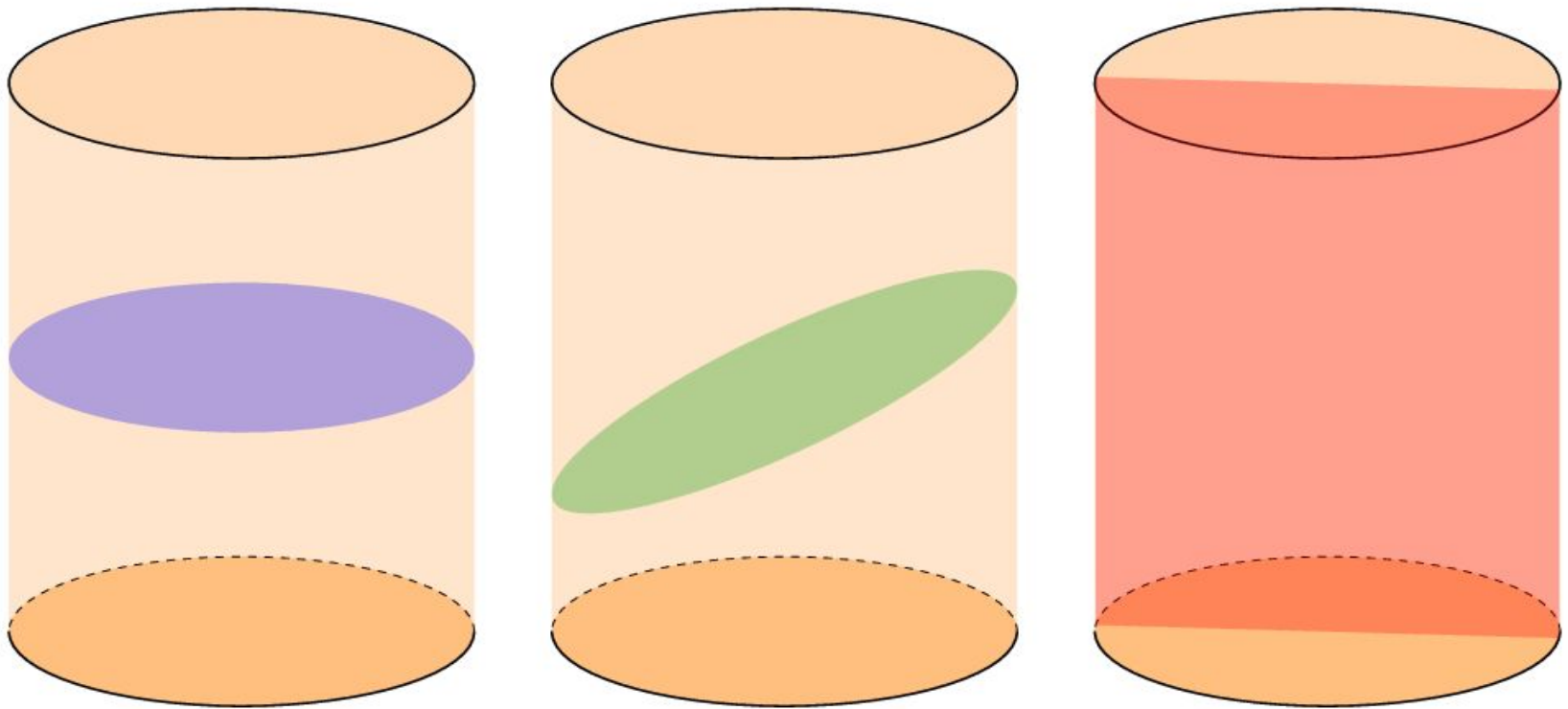
$$SA = \pi r \ell + \pi r^2$$



Volume of Cone

$$= \frac{1}{3} \pi r^2 h$$

Sections of cylinder



Sections of Cone

