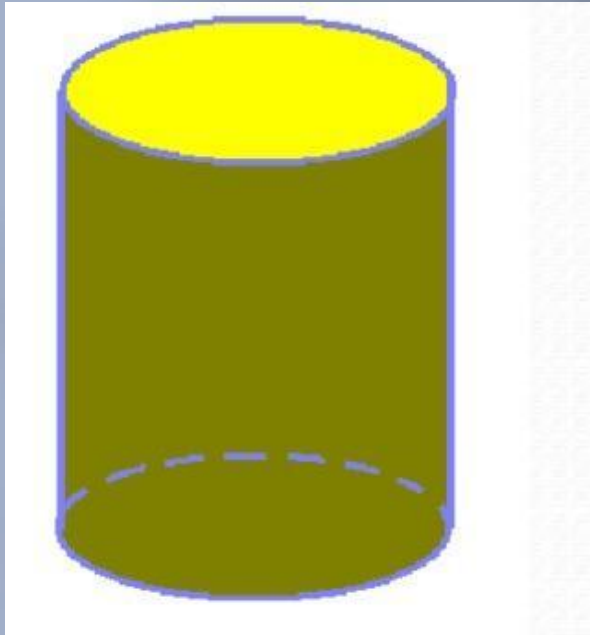


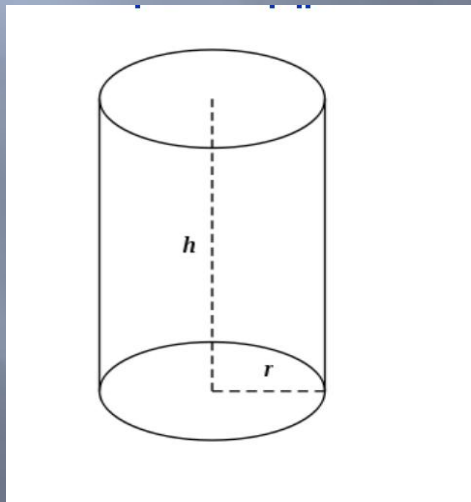
# CYLINDER AND CONE



# Cylinder

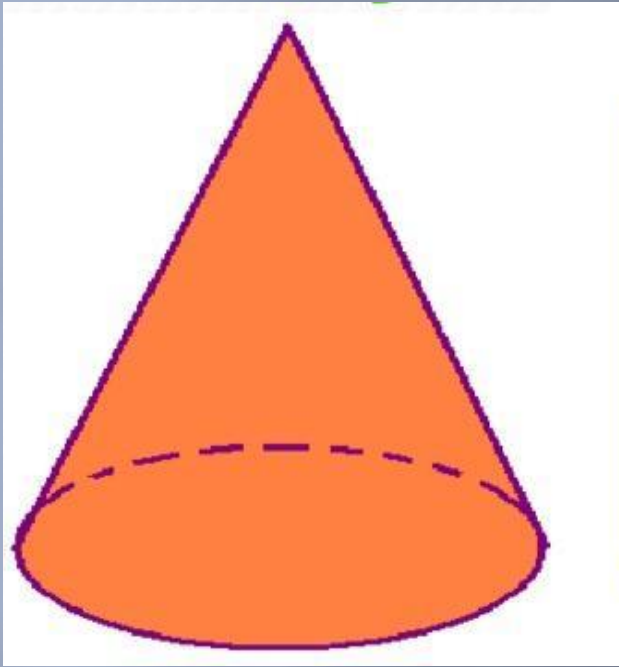


Cylinder is a body of rotation. We have a rectangle and we rotate it around its side. We get cylindrical surface and two circles, called bases of cylinder.



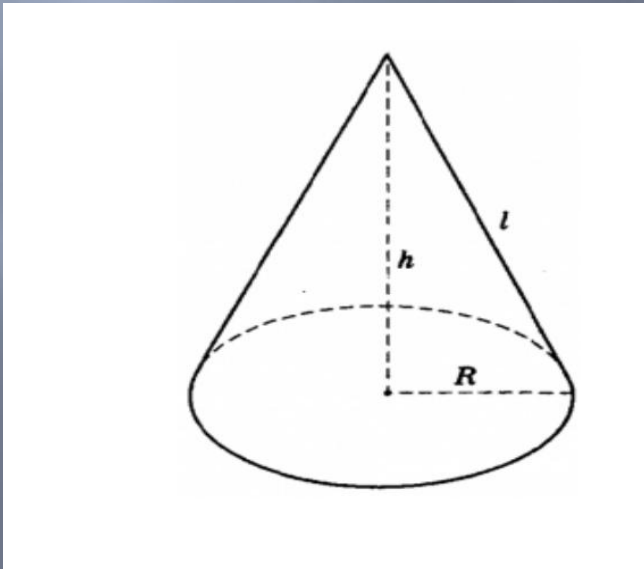
$H$  is **height** of cylinder.

$R$  is its **radius**



# Cone

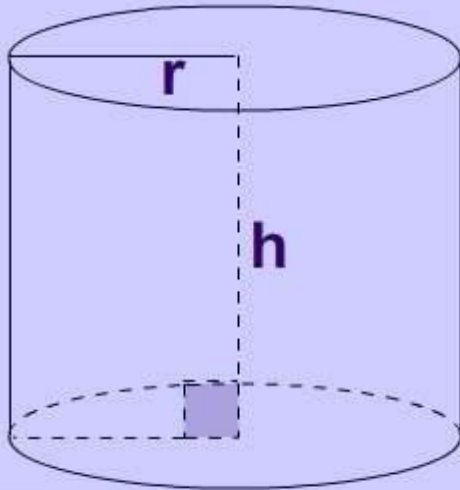
Cone is a geometric body that is formed when a rectangular triangle rotates around its cathetus.



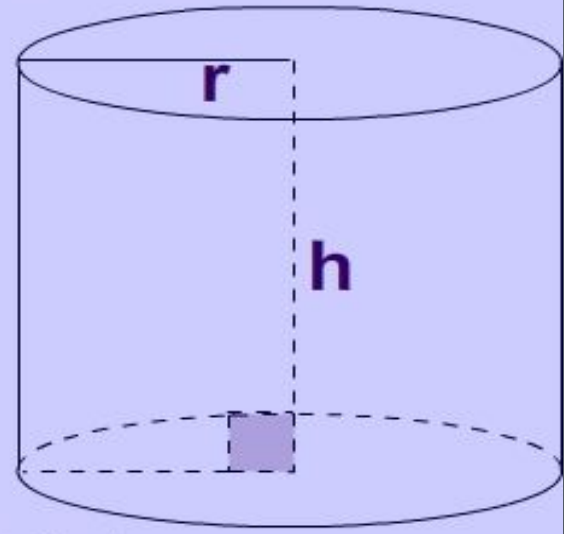
$H$  is height,  $R$  is radius and  $l$  is generatrix of cone.

# You need to know

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



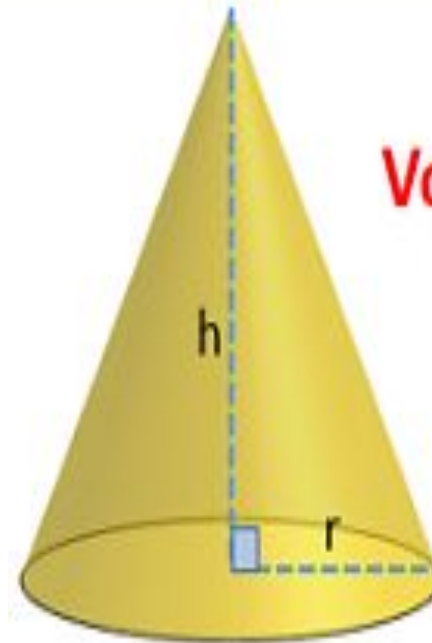
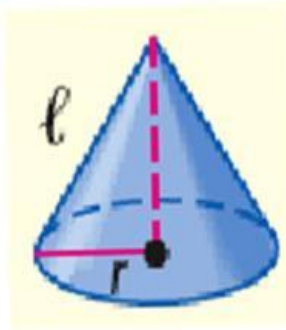
$$V = \pi r^2 h$$



# Volume of cone

Formula for Surface  
Area of a cone:

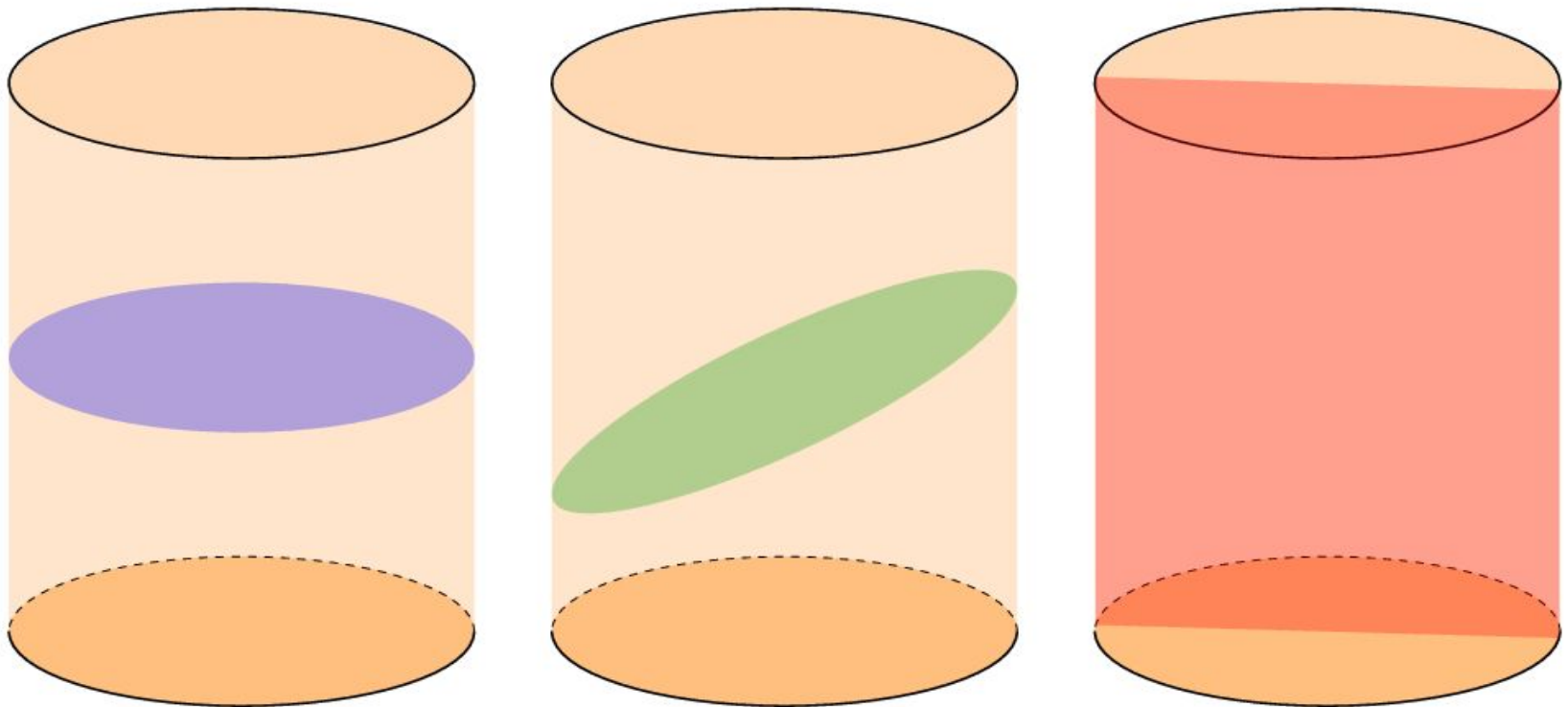
$$SA = \pi r \ell + \pi r^2$$



Volume of Cone

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

# Sections of cylinder



# Sections of Cone

