

# FORMULAS FROM GEOMETRY

## Triangle

$$h = a \sin \theta$$

$$\text{Area} = \frac{1}{2}bh$$

(Law of Cosines)

$$c^2 = a^2 + b^2 - 2ab \cos \theta$$



## Right Triangle

(Pythagorean Theorem)

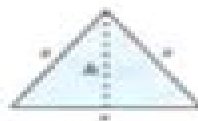
$$c^2 = a^2 + b^2$$



## Equilateral Triangle

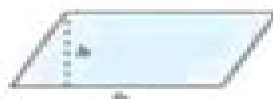
$$h = \frac{\sqrt{3}s}{2}$$

$$\text{Area} = \frac{\sqrt{3}s^2}{4}$$



## Parallelogram

$$\text{Area} = bh$$



## Trapezoid

$$\text{Area} = \frac{h}{2}(a + b)$$



## Circle

$$\text{Area} = \pi r^2$$

$$\text{Circumference} = 2\pi r$$



## Sector of Circle

( $\theta$  in radians)

$$\text{Area} = \frac{\theta r^2}{2}$$

$$s = r\theta$$



## Circular Ring

( $p$  = average radius,

$w$  = width of ring)

$$\text{Area} = \pi(R^2 - r^2) \\ = 2\pi pw$$



## Sector of Circular Ring

( $p$  = average radius,

$w$  = width of ring,

$\theta$  in radians)

$$\text{Area} = \theta pw$$



## Ellipse

$$\text{Area} = \pi ab$$

$$\text{Circumference} = 2\pi \sqrt{\frac{a^2 + b^2}{2}}$$



## Cone

( $A$  = area of base)

$$\text{Volume} = \frac{Ah}{3}$$



## Right Circular Cone

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

$$\text{Lateral Surface Area} = \pi r \sqrt{r^2 + h^2}$$



## Frustum of Right Circular Cone

$$\text{Volume} = \frac{\pi(r^2 + rR + R^2)h}{3}$$

$$\text{Lateral Surface Area} = \pi s(R + r)$$



## Right Circular Cylinder

$$\text{Volume} = \pi r^2 h$$

$$\text{Lateral Surface Area} = 2\pi rh$$



## Sphere

$$\text{Volume} = \frac{4}{3}\pi r^3$$

$$\text{Surface Area} = 4\pi r^2$$



## Wedge

( $A$  = area of upper face,

$B$  = area of base)

$$A = B \sec \theta$$



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