

hexagon, and a regular hexagonal prism has a base of a regular hexagon. The axis of a prism is the line joining the centroids of the bases. A right prism is one whose axis is perpendicular to the bases. The height  $h$  of a prism is the distance between the bases.



Volume =  $A_1 \times h$

**Rectangular parallelepiped**



Volume =  $A_1 \times h = abc$   
 Lateral area,  $A_2 = 2(ac + bc)$   
 Total surface area,  $A_3 = 2(ab + bc + ac)$   
 Face diagonal,  $d_1 = \sqrt{a^2 + c^2}$   
 Space diagonal,  $d_2 = \sqrt{a^2 + b^2 + c^2}$

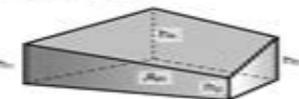
**Cube (Regular hexahedron)**

Volume =  $A_1 \times h = a^3$   
 Lateral area,  $A_2 = 4a^2$   
 Total surface area,  $A_3 = 6a^2$   
 Face diagonal,  $d_1 = a\sqrt{2}$   
 Space diagonal,  $d_2 = a\sqrt{3}$



**Truncated prism**

$A_1$  = area of the right section  
 $n$  = number of sides



Volume =  $A_1 \frac{2h}{n}$

**PYRAMIDS**

A pyramid is a polyhedron with a polygonal base and triangular faces that meet at a common point called the vertex.

Similar to prisms, pyramids are classified according to their bases.

$A_1$  = area of the base  
 $h$  = altitude, perpendicular distance from the vertex to the base



Volume =  $\frac{1}{3} A_1 \times h$

**Frustum of pyramid**

A frustum of a pyramid is the volume included between the base and a cutting plane parallel to the base.

$A_1$  = lower base area  
 $A_2$  = upper base area  
 $h$  = altitude

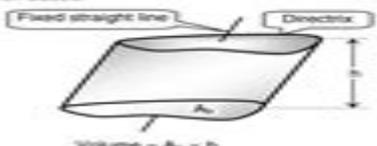


Volume =  $\frac{h}{3} (A_1 + A_2 + \sqrt{A_1 A_2})$

**CYLINDERS**

A cylinder is the surface generated by a straight line intersecting and moving along a closed plane curve, the directrix, while remaining parallel to a fixed straight line that is not on or parallel to the plane of the directrix.

Like prisms, cylinders are classified according to their bases.



Volume =  $A_1 \times h$

**Right circular cylinder**

Volume =  $A_1 \times h = \pi r^2 h$   
 Lateral area,  $A_2 = \text{Base perimeter} \times h$   
 $A_2 = 2\pi r h$



**CONE**

A cone is the surface generated by a straight line, the generator, passing through a fixed point, the vertex, and moving along a fixed curve, the directrix.

Similar to pyramids, cones are classified according to their bases.



Volume =  $\frac{1}{3} A_1 \times h$

**Right circular cone**

$r$  = base radius  
 $h$  = altitude  
 $L$  = slant height =  $\sqrt{r^2 + h^2}$   
 Volume =  $\frac{1}{3} A_1 \times h = \frac{1}{3} \pi r^2 h$   
 Lateral area,  $A_2 = \pi r L$

**Frustum of a cone**

$A_1$  = lower base area  
 $A_2$  = upper base area  
 $h$  = altitude



Volume =  $\frac{h}{3} (A_1 + A_2 + \sqrt{A_1 A_2})$

**Frustum of right circular cone**

$R$  = lower base radius  
 $r$  = upper base radius  
 $h$  = altitude  
 $L$  = slant height =  $\sqrt{h^2 + (R-r)^2}$   
 Volume =  $\frac{\pi h}{3} (R^2 + r^2 + Rr)$   
 Lateral area =  $\pi (R+r)L$



**SPHERE**

Volume =  $\frac{4}{3} \pi r^3$   
 Surface area,  $A_2 = 4\pi r^2$

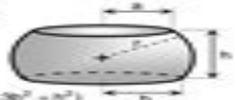
**Spherical segment of one base**



$A_{\text{area}} = 2\pi rh$   
 Volume =  $\frac{\pi h^2}{3} (3r - h)$

**Spherical segment of two bases**

$A_1 = 2\pi rh$   
 Volume =  $\frac{\pi h}{6} (3a^2 + 3b^2 + h^2)$



**Spherical cone or spherical sector**



Volume =  $\frac{1}{3} A_{\text{area}} r = \frac{2}{3} \pi r^3 h$

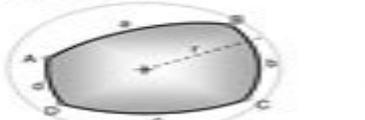
**Spherical lune and wedge**



Lune:  $\frac{A_{\text{area}}}{A} = \frac{4\pi r^2}{360^\circ}$   
 Wedge:  $A_{\text{area}} = \frac{\pi r^2 \theta}{90^\circ}$   
 $V_{\text{wedge}} = \frac{4}{3} \pi r^3 \frac{\theta}{360^\circ}$   
 $V_{\text{wedge}} = \frac{\pi r^3 \theta}{270^\circ}$

**Spherical polygons**

A spherical polygon is a polygon on the surface of a sphere whose sides are arcs of great circles.  
 $n$  = number of sides;  $r$  = radius of sphere  
 $E$  = spherical excess



Area =  $\frac{\pi r^2 E}{180^\circ}$   
 $E$  = sum of angles -  $(n - 2)180^\circ$

**Spherical pyramid**



$r$  = radius of sphere  
 $E$  = spherical excess of the polygon  
 $E$  = sum of angles -  $(n - 2)180^\circ$   
 Volume =  $\frac{\pi r^3 E}{540^\circ}$

**SOLID OF REVOLUTION**



**First proposition of Pappus**

The surface area generated by a surface of revolution equals the product of the length of the generating arc and the distance traveled by its centroid.  
 $A_2 = L \times 2\pi R$

**Second proposition of Pappus**

The volume area generated by a solid of revolution equals the product of the generating area and the distance traveled by its centroid.  
 Volume =  $A \times 2\pi R$

**ELLIPSOID**



Volume =  $\frac{4}{3} \pi abc$

**Prolate spheroid**

Prolate spheroid is formed by revolving the ellipse about its major (X) axis. Thus from the figure above,  $c = b$ , then,

Volume =  $\frac{4}{3} \pi ab^2$   
 $A_2 = 2\pi b^2 + 2\pi ab \arcsin \frac{a}{b}$   
 $e = \sqrt{a^2 - b^2} / a$

**Oblate spheroid**

Oblate spheroid is formed by revolving the ellipse about its minor (Z) axis. Thus from the figure above,  $c = a$ , then,

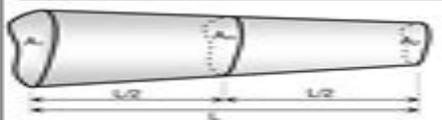
Volume =  $\frac{4}{3} \pi a^2 b$   
 $A_2 = 2\pi a^2 + \frac{\pi b^2}{e} \ln \frac{1+e}{1-e}$

**PARABOLOID OF REVOLUTION**



Volume =  $\frac{1}{2} \pi r^2 h$   
 $A_2 = \frac{4\pi r}{3h} \left[ \left( \frac{r^2}{4} + h^2 \right)^{3/2} - \left( \frac{r^2}{4} \right)^{3/2} \right]$

**PRISMATICAL RULE**

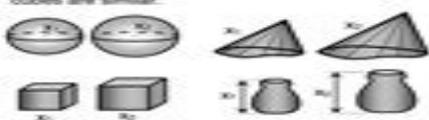


Volume =  $\frac{h}{6} [A_1 + 4A_m + A_2]$

The prismoidal rule gives precise values of volume for regular solid such as pyramids, cones, frustums of pyramids or cones, spheres, and prismsoids.

**SIMILAR SOLIDS**

Two solids are similar if any two corresponding sides or planes are proportional. All spheres, cubes are similar.



For all similar solids:

$\frac{A_1}{A_2} = \left( \frac{x_1}{x_2} \right)^2$  and  $\frac{V_1}{V_2} = \left( \frac{x_1}{x_2} \right)^3$

Where  $A_1$  is the surface, total area, or any corresponding area. The dimension  $x$  may be the height, base diameter, diagonal, or any corresponding dimension.

# Solid Geometry Formulas

**B Lingard**



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