Plane and Solid Geometry Formulas

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 base. The **height** 'h' of a prism is the distance between the bases.

$$\text{Volume} = A_b \times h$$

Rectangular parallelepiped

$$\text{Volume} = A_b \times h = abc$$
Lateral area, $A_L = 2(ac + bc)$
Total surface area, $A_s = 2(ab + bc + ac)$

Face diagonal, $d_f = \sqrt{a^2 + c^2}$

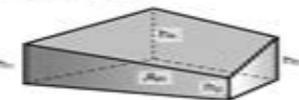Space diagonal, $d_s = \sqrt{a^2 + b^2 + c^2}$

Cube (Regular hexahedron)
Volume $= A_b \times h = a^3$
Lateral area, $A_L = 4a^2$
Total surface area
$\quad A_s = 6a^2$
Face diagonal
$\quad d_f = a\sqrt{2}$
Space diagonal
$\quad d_s = a\sqrt{3}$

Truncated prism
A_R = area of the right section
n = number of sides

$$\text{Volume} = A_R \frac{\Sigma h}{n}$$

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

$$\text{Volume} = \frac{1}{3} A_b \times h$$

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

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

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.
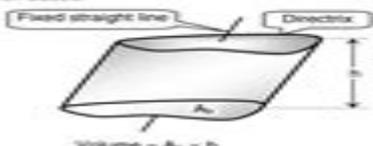
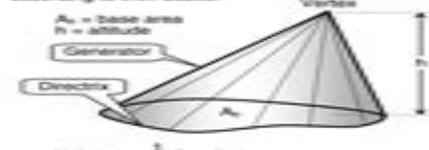$$\text{Volume} = A_b \times h$$

Right circular cylinder

$$\text{Volume} = A_b \times h = \pi r^2 h$$
Lateral area, A_L
$\quad A_L$ = Base perimeter × h
$\quad A_L = 2 \pi r h$

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.

A_b = base area
h = altitude

$$\text{Volume} = \frac{1}{3} A_b \times h$$

Right circular cone
r = base radius
h = altitude

L = slant height $= \sqrt{r^2 + h^2}$
$$\text{Volume} = \frac{1}{3} A_b \times h = \frac{1}{3}\pi r^2 h$$
Lateral area, $A_L = \pi r L$

Frustum of a cone
A_1 = lower base area
A_2 = upper base area
h = altitude

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

Frustum of right circular cone
R = lower base radius
r = upper base radius; h = altitude

L = slant height $= \sqrt{h^2 + (R - r)^2}$
$$\text{Volume} = \frac{\pi h}{3}\left(R^2 + r^2 + Rr\right)$$
Lateral area $= \pi (R + r) L$

SPHERE

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

Spherical segment of one base

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

Spherical segment of two bases

$A_z = 2\pi r h$
$$\text{Volume} = \frac{\pi h}{6}\left(3a^2 + 3b^2 + h^2\right)$$

Spherical cone or spherical sector

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

Spherical lune and wedge

Lune
$$A_{lune} = \frac{4\pi r^2}{360°}\theta$$
$$V_{wedge} = \frac{\frac{4}{3}\pi r^3}{360°}\theta$$

Wedge
$$A_{zone} = \frac{\pi r^2 \theta}{90°}$$
$$V_{wedge} = \frac{\pi r^3 \theta}{270°}$$

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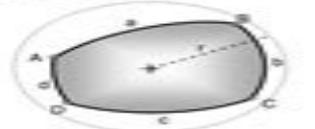
$$\text{Area} = \frac{\pi r^2 E}{180°}$$
E = sum of angles $-(n-2)180°$

Spherical pyramid

r = radius of sphere
E = spherical excess of the polygon
E = sum of angles $-(n-2)180°$

$$\text{Volume} = \frac{\pi r^3 E}{540°}$$

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.

$$A_s = L \times 2\pi R$$

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.

$$\text{Volume} = A \times 2\pi R$$

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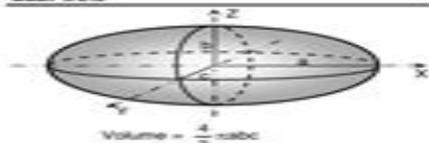
$$\text{Volume} = \frac{4}{3}\pi abc$$

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

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

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

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

PARABOLOID OF REVOLUTION

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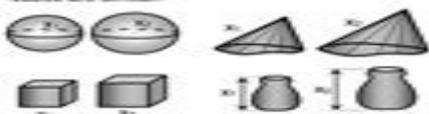
PRISMOIDAL RULE

$$\text{Volume} = \frac{L}{6}\left[A_1 + 4A_m + A_2\right]$$

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

SIMILAR SOLIDS

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

For all similar solids:
$$\frac{A_{s1}}{A_{s2}} = \left(\frac{x_1}{x_2}\right)^2 \quad \text{and} \quad \frac{V_1}{V_2} = \left(\frac{x_1}{x_2}\right)^3$$

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

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John H. Williams,Kenneth P. Williams

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An Elementary Treatise on Solid Geometry Charles Smith,1928   Solid Geometry Developed by the Syllabus Method Eugene Randolph Smith,William Henry Metzler,1918   **Essentials of Solid Geometry** David Eugene Smith,1924   Modern Solid Geometry, Graded Course Webster Wells,Walter Wilson Hart,1927   Solid Geometry Fletcher Durell,1904   Robbins's New Solid Geometry Edward Rutledge Robbins,1916   **An Elementary Treatise on Solid Geometry** Charles Smith,1954   **Robbin's New Plane and Solid Geometry** Edward Rutledge Robbins, A.B.,1916   **Solid Geometry, with Problems and Applications** Herbert Ellsworth Slaught,Nels Johann Lennes,1911   **Plane and Solid Geometry** Fletcher Durell,1909   **Solid Geometry** William Weller Strader,Lawrence D. Rhoads,1929   **Solid Geometry** John H. Williams,Kenneth P. Williams,1916   *A Treatise on the Application of Analysis to Solid Geometry* Duncan Farquharson Gregory,William Walton,1845   *Solid Geometry* Francis Eugene Seymour,1930   Solid Geometry Walter Wilson Hart,Veryl Schult,1952   **Progressive Solid Geometry** Walter Wilson Hart,1943   **Plane and Solid Geometry** Clara Avis Hart,Daniel D. Feldman,1912   **A treatise on the application of analysis to solid geometry. Commenced by D. F. G., concluded by W. Walton** Duncan Farquharson GREGORY,1845   Course of Study in Mathematics Pennsylvania. Department of Public Instruction,1927   **Solid Geometry** Virgil Sampson Mallory,Chauncey W. Oakley,1954

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