

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, $d_2 = \sqrt{a^2 + b^2 + c^2}$

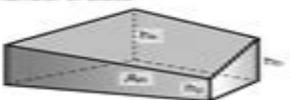
Cube (Regular hexahedron)



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.

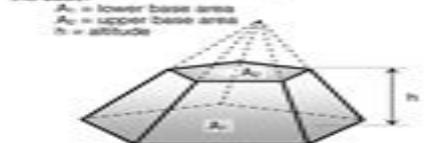
Similar to prisms, pyramids are classified according to their bases.



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.

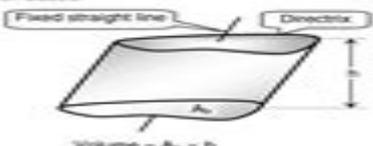


Volume = $\frac{h}{3} (A_1 + A_2 + \sqrt{A_1 A_2})$

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 = $A_1 \times h$

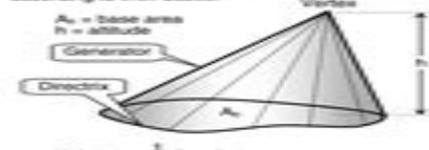
Right circular cylinder



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.



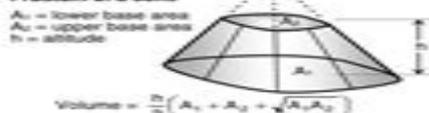
Volume = $\frac{1}{3} A_1 \times h$

Right circular cone



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



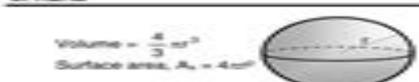
Volume = $\frac{h}{3} (A_1 + A_2 + \sqrt{A_1 A_2})$

Frustum of right circular cone



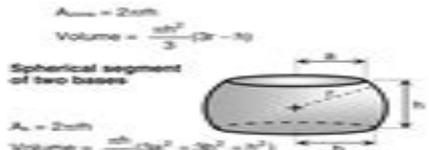
L = slant height = $\sqrt{h^2 + (R - r)^2}$
 Volume = $\frac{\pi h}{3} (R^2 + r^2 + Rr)$
 Lateral area = $\pi (R + r)L$

SPHERE

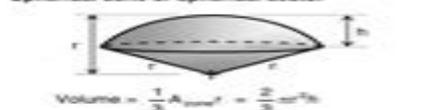


Volume = $\frac{4}{3} \pi r^3$
 Surface area, $A_2 = 4\pi r^2$

Spherical segment of one base



Spherical cone or spherical sector



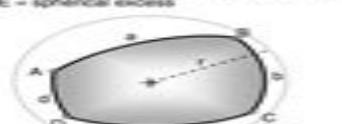
Spherical lune and wedge



$\frac{A_{lune}}{\Omega} = \frac{4\pi r^2}{360^\circ}$
 $\frac{V_{wedge}}{\Omega} = \frac{4}{3} \frac{\pi r^3}{360^\circ}$
 $A_{wedge} = \frac{\pi r^2 \theta}{90^\circ}$
 $V_{wedge} = \frac{\pi r^3 \theta}{270^\circ}$

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.

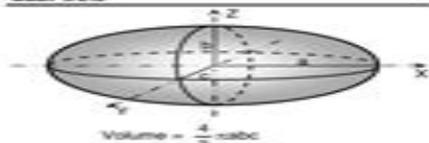
$A_2 = L \times 2\pi R$

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

Oblate spheroid

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

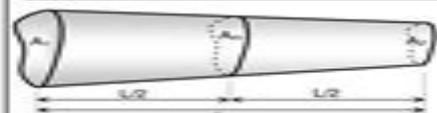
Volume = $\frac{4}{3} \pi a^2 b$
 $A_2 = 2\pi a^2 + \frac{\pi b^2}{e} \ln \frac{1+e}{1-e}$

PARABOLOID OF REVOLUTION



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

PRISMATICAL RULE



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

The prismatoid 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:

$\frac{A_{x1}}{A_{x2}} = \left(\frac{x_1}{x_2} \right)^2$ and $\frac{V_{y1}}{V_{y2}} = \left(\frac{y_1}{y_2} \right)^3$

Where A_x 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

Jiyuan Zhang



Solid Geometry Formulas:

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 **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 *An Elementary Treatise on Solid Geometry* Charles Smith, 1954 Solid Geometry John H. Williams, Kenneth P. Williams, 1916 *Solid Geometry* Francis Eugene Seymour, 1930 *Solid Geometry* Walter Wilson Hart, Veryl Schult, 1952 **A Treatise on the Application of Analysis to Solid Geometry** Duncan Farquharson Gregory, William Walton, 1845 Progressive Solid Geometry Walter Wilson Hart, 1943 **Plane and Solid Geometry** Clara Avis Hart, Daniel D. Feldman, 1912 Course of Study in Mathematics Pennsylvania. Department of Public Instruction, 1927 **Solid Geometry** Virgil Sampson Mallory, Chauncey W. Oakley, 1954 *A treatise on the application of analysis to solid geometry. Commenced by D. F. G., concluded by W. Walton* Duncan Farquharson GREGORY, 1845

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