# Plane and Solid Geometry Formulas

Prepared by: RIFVertena

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.



Volume = $A_b \times h$

## Rectangular parallelepiped



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

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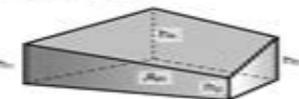
Space diagonal, $d_s = \sqrt{a^2 + b^2 + c^2}$

## Cube (Regular hexahedron)
Volume = $A_b \times h = a^3$
Lateral area, $A_L = 4a^2$
Total surface area
$\quad A_T = 6a^2$
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



Volume = $A_R \dfrac{\Sigma h}{n}$

## 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



Volume = $\dfrac{1}{3} A_b \times h$

## 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
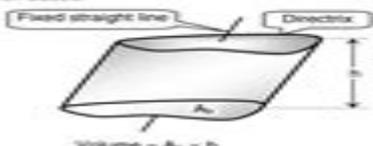$A_2$ = upper base area
h = altitude



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

## 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.

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Like prisms, cylinders are classified according to their bases.



Volume = $A_b \times h$

## Right circular cylinder

Volume = $A_b \times h = \pi r^2 h$

Lateral area, $A_L$
$\quad A_L$ = Base perimeter $\times h$
$\quad A_L = 2\pi r h$



## 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



Volume = $\dfrac{1}{3} A_b \times h$

## Right circular cone
r = base radius
h = altitude



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

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



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

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



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

## SPHERE



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

## Spherical segment of one base



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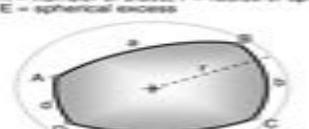Volume = $\dfrac{\pi h^2}{3}(3r - h)$

## Spherical segment of two bases



$A_z = 2\pi r h$
Volume = $\dfrac{\pi h}{6}(3a^2 + 3b^2 + h^2)$

## Spherical cone or spherical sector



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

## Spherical lune and wedge



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

**Wedge**
$A_{lune} = \dfrac{\pi r^2 \theta}{90°}$
$V_{wedge} = \dfrac{\pi r^3 \theta}{270°}$

## 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



Area = $\dfrac{\pi r^2 E}{180°}$
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°

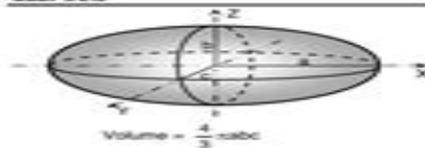Volume = $\dfrac{\pi r^3 E}{540°}$

## 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.

Volume = $A \times 2\pi R$

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## ELLIPSOID



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

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

Volume = $\dfrac{4}{3}\pi ab^2$

$A_s = 2\pi b^2 + 2\pi ab \dfrac{\arcsin e}{e}$

$e = \sqrt{a^2 - b^2}/a$

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

Volume = $\dfrac{4}{3}\pi a^2 b$

$A_s = 2\pi a^2 + \dfrac{\pi b^2}{e}\ln\dfrac{1+e}{1-e}$

## PARABOLOID OF REVOLUTION



Volume = $\dfrac{1}{2}\pi r^2 h$

$A_s = \dfrac{4\pi}{3r^2}\left[\left(\dfrac{r^2}{4} + h^2\right)^{3/2} - \left(\dfrac{r}{2}\right)^3\right]$

## PRISMOIDAL RULE



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

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:

$\dfrac{A_{s1}}{A_{s2}} = \left(\dfrac{x_1}{x_2}\right)^2$  and  $\dfrac{V_1}{V_2} = \left(\dfrac{x_1}{x_2}\right)^3$

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.

# Solid Geometry Formulas

Clara Avis Hart,Daniel D. Feldman

**Solid Geometry Formulas:**

**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 An Elementary Treatise on Solid Geometry Charles Smith,1928 **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 **Solid Geometry** John H. Williams,Kenneth P. Williams,1916 **An Elementary Treatise on Solid Geometry** Charles Smith,1954 *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 **Course of Study in Mathematics** Pennsylvania. Department of Public Instruction,1927 **Solid Geometry** Virgil Sampson Mallory,Chauncey W. Oakley,1954 Geometry Workbook For Dummies Mark Ryan,2006-11-06 Make gerometry paractice easy and dun Geometry is one of the oldest mathematical subjects in history Unfortunately few geometry study guides offer clear explanations causing many people to get tripped up or lost when trying to solve a proof even when they know the terms and concepts like the back of their hand However this problem can be fixed with practice and some strategies for slicing through all the mumbo jumbo and getting right to the heart of the proof Geometry Workbook For Dummies ensures that practice makes perfect especially when problems are presented without the stiff formal style that you d find in your math textbook Written with a commonsense street smart approach this guide gives you the step by step process to solve each proof along with tips shortcuts and mnemonic devices to make sure the solutions stick It also gives you plenty of room to work out your solutions providing you with space to breathe and a clear head This book provides you with the tools you need to solve all types of geometry problems including Congruent triangles Finding the area angle and size of quadrilaterals Angle arc theorems and formulas Touching radii and tangents Connecting radii and chords Parallel perpendicular and intersecting lines and planes Slope distance and midpoint formulas Line and circle equations Handling rotations reflections and other transformations Packed with tons of strategies for solving proofs and a review of key concepts Geometry Workbook For Dummies is the ultimate study aid for students parents and anyone with an interest in the field **SAT Subject Test Mathematics Level 2** Kaplan Test Prep,2017-01-03 4 full length practice tests with detailed explanations Cover

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