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|  | **FORMULAS FROM GEOMETRY** | | | | | |  |
| **Triangle** h a sin  Area bh  (Law of Cosines)  c2  a2  b2  2ab cos | c | b | a  θ |  | | **Sector of Circular Ring**  p average radius, w width of ring,  in radians  Area pw | w |
| **Right Triangle**  (Pythagorean Theorem) c2 a2 b2 |  | b |  | a |  | **Ellipse**  Area ab  Circumference 2 a2 b2  2 | b a |
| **Equilateral Triangle**  3s  h  2  3s2 Area  4 | s |  | s |  |  | **Cone**  A area of base  Ah Volume  3 |  |
| **Parallelogram**  Area bh |  |  |  |  |  | **Right Circular Cone**  r2h  Volume  3  Lateral Surface Area rr2  h2 |  |
| **Trapezoid**  h  Area a b  2 |  | |  | a h | b | **Frustum of Right Circular Cone**  r2  rR R2h  Volume  3  Lateral Surface Area sR r |  |
| **Circle**  Area r2  Circumference 2r | r | |  |  |  | **Right Circular Cylinder**  Volume r2h  Lateral Surface Area 2rh |  |
| **Sector of Circle**  in radians  r2  Area  2  s r | r | |  | s |  | **Sphere**  Volume  Surface Area 4 r2 |  |
| **Circular Ring**  p average radius, w width of ring  Area R2  r2  2 pw |  | |  |  |  | **Wedge**  A area of upper face,  B area of base  A B sec |  |

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