Important Antiprism Formulas PDF

Formulas
Examples
with Units

List of 20
Important Antiprism Formulas

1) Edge Length of Antiprism Formulas

1.1) Edge Length of Antiprism Formula

Evaluate Formula

Formula

$$l_e = \frac{h}{\sqrt{1 - \frac{\left(\sec\left(\frac{\pi}{2 \cdot N_{Vertices}}\right)\right)^2}{4}}}$$

Example with Units

$$9.4046\,\text{m} = \frac{8\,\text{m}}{\sqrt{1 - \frac{\left(\sec\left(\frac{3.1416}{2 \cdot 5}\right)\right)^2}{4}}}$$

1.2) Edge Length of Antiprism given Surface to Volume Ratio Formula

Evaluate Formula

Formula

$$l_e = \frac{6 \cdot \left(\sin\left(\frac{\pi}{N_{Vertices}}\right)\right)^2 \cdot \left(\cot\left(\frac{\pi}{N_{Vertices}}\right) + \sqrt{3}\right)}{\sin\left(\frac{3 \cdot \pi}{2 \cdot N_{Vertices}}\right) \cdot \sqrt{4 \cdot \left(\cos\left(\frac{\pi}{2 \cdot N_{Vertices}}\right)^2\right) - 1 \cdot R_{A/V}}}$$

Example with Units

$$9.845\,\text{m} = \frac{6 \cdot \left(\sin\left(\frac{3.1416}{5}\right)\right)^2 \cdot \left(\cot\left(\frac{3.1416}{5}\right) + \sqrt{3}\right)}{\sin\left(\frac{3 \cdot 3.1416}{2 \cdot 5}\right) \cdot \sqrt{4 \cdot \left(\cos\left(\frac{3.1416}{2 \cdot 5}\right)^2\right) - 1 \cdot 0.5\,\text{m}^{-1}}}$$

1.3) Edge Length of Antiprism given Total Surface Area Formula

Evaluate Formula

Formula

$$l_e = \sqrt{\frac{TSA}{\frac{N_{Vertices}}{2} \cdot \left(\cot\left(\frac{\pi}{N_{Vertices}}\right) + \sqrt{3}\right)}}$$

Example with Units

$$10.0186\,\text{m} = \sqrt{\frac{780\,\text{m}^2}{\frac{5}{2} \cdot \left(\cot\left(\frac{3.1416}{5}\right) + \sqrt{3}\right)}}$$

1.4) Edge Length of Antiprism given Volume Formula

Evaluate Formula

Formula

$$l_e = \left(\frac{12 \cdot \left(\sin\left(\frac{\pi}{N_{Vertices}} \right) \right)^2 \cdot V}{N_{Vertices} \cdot \sin\left(\frac{3 \cdot \pi}{2 \cdot N_{Vertices}} \right) \cdot \sqrt{4 \cdot \left(\cos\left(\frac{\pi}{2 \cdot N_{Vertices}} \right) \right)^2 - 1}} \right)^{\frac{1}{3}}$$

Example with Units

$$10.0028\,\text{m} = \left(\frac{12 \cdot \left(\sin\left(\frac{3.1416}{5} \right) \right)^2 \cdot 1580\,\text{m}^3}{5 \cdot \sin\left(\frac{3 \cdot 3.1416}{2 \cdot 5} \right) \cdot \sqrt{4 \cdot \left(\cos\left(\frac{3.1416}{2 \cdot 5} \right) \right)^2 - 1}} \right)^{\frac{1}{3}}$$

2) Height of Antiprism Formulas

2.1) Height of Antiprism Formula

Evaluate Formula

Formula

$$h = \sqrt{1 - \frac{\left(\sec\left(\frac{\pi}{2 \cdot N_{Vertices}} \right) \right)^2}{4}} \cdot l_e$$

Example with Units

$$8.5065\,\text{m} = \sqrt{1 - \frac{\left(\sec\left(\frac{3.1416}{2 \cdot 5} \right) \right)^2}{4}} \cdot 10\,\text{m}$$

2.2) Height of Antiprism given Surface to Volume Ratio Formula

Evaluate Formula

Formula

$$h = \sqrt{1 - \frac{\left(\sec\left(\frac{\pi}{2 \cdot N_{Vertices}} \right) \right)^2}{4}} \cdot \frac{6 \cdot \left(\sin\left(\frac{\pi}{N_{Vertices}} \right) \right)^2 \cdot \left(\cot\left(\frac{\pi}{N_{Vertices}} \right) + \sqrt{3} \right)}{\sin\left(\frac{3 \cdot \pi}{2 \cdot N_{Vertices}} \right) \cdot \sqrt{4 \cdot \left(\cos\left(\frac{\pi}{2 \cdot N_{Vertices}} \right) \right)^2 - 1} \cdot R_{A/V}}$$

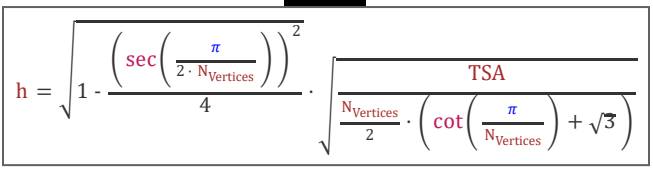
Example with Units

$$8.3746\,\text{m} = \sqrt{1 - \frac{\left(\sec\left(\frac{3.1416}{2 \cdot 5} \right) \right)^2}{4}} \cdot \frac{6 \cdot \left(\sin\left(\frac{3.1416}{5} \right) \right)^2 \cdot \left(\cot\left(\frac{3.1416}{5} \right) + \sqrt{3} \right)}{\sin\left(\frac{3 \cdot 3.1416}{2 \cdot 5} \right) \cdot \sqrt{4 \cdot \left(\cos\left(\frac{3.1416}{2 \cdot 5} \right) \right)^2 - 1} \cdot 0.5\,\text{m}^{-1}}$$

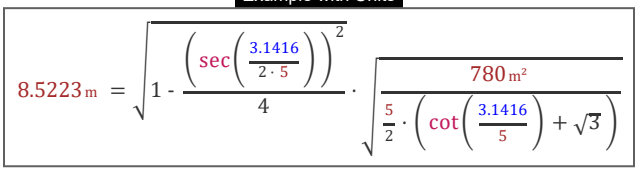
2.3) Height of Antiprism given Total Surface Area Formula

Evaluate Formula

Formula



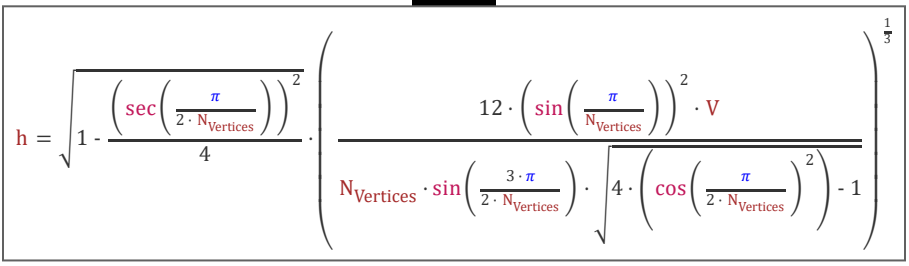
Example with Units



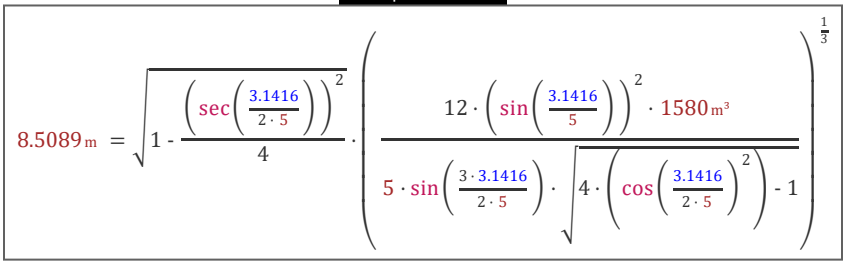
2.4) Height of Antiprism given Volume Formula

Evaluate Formula

Formula



Example with Units



3) Surface Area of Antiprism Formulas

3.1) Total Surface Area of Antiprism Formulas

3.1.1) Total Surface Area of Antiprism Formula

Evaluate Formula

Formula

$$TSA = \frac{N_{Vertices}}{2} \cdot \left(\cot\left(\frac{\pi}{N_{Vertices}} \right) + \sqrt{3} \right) \cdot l_e^{\,2}$$

Example with Units

$$777.1082\,\text{m}^2 = \frac{5}{2} \cdot \left(\cot\left(\frac{3.1416}{5} \right) + \sqrt{3} \right) \cdot 10\,\text{m}^{\,2}$$

3.1.2) Total Surface Area of Antiprism given Height Formula

Evaluate Formula

Formula

$$TSA = \frac{N_{Vertices}}{2} \cdot \left(\cot\left(\frac{\pi}{N_{Vertices}} \right) + \sqrt{3} \right) \cdot \left(\frac{h}{\sqrt{1 - \frac{\left(\sec\left(\frac{\pi}{2 \cdot N_{Vertices}} \right) \right)^2}{4}}} \right)^2$$

Example with Units

$$687.3197\,\text{m}^2 = \frac{5}{2} \cdot \left(\cot\left(\frac{3.1416}{5} \right) + \sqrt{3} \right) \cdot \left(\frac{8\,\text{m}}{\sqrt{1 - \frac{\left(\sec\left(\frac{3.1416}{2 \cdot 5} \right) \right)^2}{4}}} \right)^2$$

3.1.3) Total Surface Area of Antiprism given Surface to Volume Ratio Formula

Evaluate Formula

Formula

$$TSA = \frac{N_{Vertices}}{2} \cdot \left(\cot\left(\frac{\pi}{N_{Vertices}} \right) + \sqrt{3} \right) \cdot \left(\frac{6 \cdot \left(\sin\left(\frac{\pi}{N_{Vertices}} \right) \right)^2 \cdot \left(\cot\left(\frac{\pi}{N_{Vertices}} \right) + \sqrt{3} \right)}{\sin\left(\frac{3 \cdot \pi}{2 \cdot N_{Vertices}} \right) \cdot \sqrt{4 \cdot \left(\cos\left(\frac{\pi}{2 \cdot N_{Vertices}} \right)^2 \right) - 1} \cdot R_{A/V}} \right)^2$$

Example with Units

$$753.2014\,\text{m}^2 = \frac{5}{2} \cdot \left(\cot\left(\frac{3.1416}{5} \right) + \sqrt{3} \right) \cdot \left(\frac{6 \cdot \left(\sin\left(\frac{3.1416}{5} \right) \right)^2 \cdot \left(\cot\left(\frac{3.1416}{5} \right) + \sqrt{3} \right)}{\sin\left(\frac{3 \cdot 3.1416}{2 \cdot 5} \right) \cdot \sqrt{4 \cdot \left(\cos\left(\frac{3.1416}{2 \cdot 5} \right)^2 \right) - 1} \cdot 0.5\,\text{m}^{-1}} \right)^2$$

3.1.4) Total Surface Area of Antiprism given Volume Formula

Evaluate Formula

Formula

$$TSA = \frac{N_{Vertices}}{2} \cdot \left(\cot\left(\frac{\pi}{N_{Vertices}} \right) + \sqrt{3} \right) \cdot \left(\frac{12 \cdot \left(\sin\left(\frac{\pi}{N_{Vertices}} \right) \right)^2 \cdot V}{N_{Vertices} \cdot \sin\left(\frac{3 \cdot \pi}{2 \cdot N_{Vertices}} \right) \cdot \sqrt{4 \cdot \left(\cos\left(\frac{\pi}{2 \cdot N_{Vertices}} \right)^2 \right) - 1}} \right)^{\frac{2}{3}}$$

Example with Units

$$777.5382\,\text{m}^2 = \frac{5}{2} \cdot \left(\cot\left(\frac{3.1416}{5} \right) + \sqrt{3} \right) \cdot \left(\frac{12 \cdot \left(\sin\left(\frac{3.1416}{5} \right) \right)^2 \cdot 1580\,\text{m}^3}{5 \cdot \sin\left(\frac{3 \cdot 3.1416}{2 \cdot 5} \right) \cdot \sqrt{4 \cdot \left(\cos\left(\frac{3.1416}{2 \cdot 5} \right)^2 \right) - 1}} \right)^{\frac{2}{3}}$$

4) Surface to Volume Ratio of Antiprism Formulas

4.1) Surface to Volume Ratio of Antiprism Formula

Evaluate Formula

Formula

$$R_{A/V} = \frac{6 \cdot \left(\sin\left(\frac{\pi}{N_{Vertices}}\right)\right)^2 \cdot \left(\cot\left(\frac{\pi}{N_{Vertices}}\right) + \sqrt{3}\right)}{\sin\left(\frac{3 \cdot \pi}{2 \cdot N_{Vertices}}\right) \cdot \sqrt{4 \cdot \left(\cos\left(\frac{\pi}{2 \cdot N_{Vertices}}\right)^2\right)} - 1 \cdot l_e}$$

Example with Units

$$0.4922\,\text{m}^{-1} = \frac{6 \cdot \left(\sin\left(\frac{3.1416}{5}\right)\right)^2 \cdot \left(\cot\left(\frac{3.1416}{5}\right) + \sqrt{3}\right)}{\sin\left(\frac{3 \cdot 3.1416}{2 \cdot 5}\right) \cdot \sqrt{4 \cdot \left(\cos\left(\frac{3.1416}{2 \cdot 5}\right)^2\right)} - 1 \cdot 10\,\text{m}}$$

4.2) Surface to Volume Ratio of Antiprism given Height Formula

Evaluate Formula

Formula

$$R_{A/V} = \frac{6 \cdot \left(\sin\left(\frac{\pi}{N_{Vertices}}\right)\right)^2 \cdot \left(\cot\left(\frac{\pi}{N_{Vertices}}\right) + \sqrt{3}\right)}{\sin\left(\frac{3 \cdot \pi}{2 \cdot N_{Vertices}}\right) \cdot \sqrt{4 \cdot \left(\cos\left(\frac{\pi}{2 \cdot N_{Vertices}}\right)^2\right)} - 1 \cdot \frac{h}{\sqrt{1 - \frac{\left(\sec\left(\frac{\pi}{2 \cdot N_{Vertices}}\right)\right)^2}{4}}}}$$

Example with Units

$$0.5234\,\text{m}^{-1} = \frac{6 \cdot \left(\sin\left(\frac{3.1416}{5}\right)\right)^2 \cdot \left(\cot\left(\frac{3.1416}{5}\right) + \sqrt{3}\right)}{\sin\left(\frac{3 \cdot 3.1416}{2 \cdot 5}\right) \cdot \sqrt{4 \cdot \left(\cos\left(\frac{3.1416}{2 \cdot 5}\right)^2\right)} - 1 \cdot \frac{8\,\text{m}}{\sqrt{1 - \frac{\left(\sec\left(\frac{3.1416}{2 \cdot 5}\right)\right)^2}{4}}}}$$

4.3) Surface to Volume Ratio of Antiprism given Total Surface Area Formula

Evaluate Formula

Formula

$$R_{A/V} = \frac{6 \cdot \left(\sin\left(\frac{\pi}{N_{Vertices}}\right)\right)^2 \cdot \left(\cot\left(\frac{\pi}{N_{Vertices}}\right) + \sqrt{3}\right)}{\sin\left(\frac{3 \cdot \pi}{2 \cdot N_{Vertices}}\right) \cdot \sqrt{4 \cdot \left(\cos\left(\frac{\pi}{2 \cdot N_{Vertices}}\right)^2\right) - 1} \cdot \sqrt{\frac{TSA}{\frac{N_{Vertices}}{2} \cdot \left(\cot\left(\frac{\pi}{N_{Vertices}}\right) + \sqrt{3}\right)}}}$$

Example with Units

$$0.4913\,\text{m}^{-1} = \frac{6 \cdot \left(\sin\left(\frac{3.1416}{5}\right)\right)^2 \cdot \left(\cot\left(\frac{3.1416}{5}\right) + \sqrt{3}\right)}{\sin\left(\frac{3 \cdot 3.1416}{2 \cdot 5}\right) \cdot \sqrt{4 \cdot \left(\cos\left(\frac{3.1416}{2 \cdot 5}\right)^2\right) - 1} \cdot \sqrt{\frac{780\,\text{m}^2}{\frac{5}{2} \cdot \left(\cot\left(\frac{3.1416}{5}\right) + \sqrt{3}\right)}}}$$

4.4) Surface to Volume Ratio of Antiprism given Volume Formula

Evaluate Formula

Formula

$$R_{A/V} = \frac{6 \cdot \left(\sin\left(\frac{\pi}{N_{Vertices}}\right)\right)^2 \cdot \left(\cot\left(\frac{\pi}{N_{Vertices}}\right) + \sqrt{3}\right)}{\sin\left(\frac{3 \cdot \pi}{2 \cdot N_{Vertices}}\right) \cdot \sqrt{4 \cdot \left(\cos\left(\frac{\pi}{2 \cdot N_{Vertices}}\right)^2\right) - 1} \cdot \left(\frac{12 \cdot \left(\sin\left(\frac{\pi}{N_{Vertices}}\right)\right)^2 \cdot V}{N_{Vertices} \cdot \sin\left(\frac{3 \cdot \pi}{2 \cdot N_{Vertices}}\right) \cdot \sqrt{4 \cdot \left(\cos\left(\frac{\pi}{2 \cdot N_{Vertices}}\right)^2\right) - 1}}\right)^{\frac{1}{3}}}$$

Example with Units

$$0.4921\,\text{m}^{-1} = \frac{6 \cdot \left(\sin\left(\frac{3.1416}{5}\right)\right)^2 \cdot \left(\cot\left(\frac{3.1416}{5}\right) + \sqrt{3}\right)}{\sin\left(\frac{3 \cdot 3.1416}{2 \cdot 5}\right) \cdot \sqrt{4 \cdot \left(\cos\left(\frac{3.1416}{2 \cdot 5}\right)^2\right) - 1} \cdot \left(\frac{12 \cdot \left(\sin\left(\frac{3.1416}{5}\right)\right)^2 \cdot 1580\,\text{m}^3}{5 \cdot \sin\left(\frac{3 \cdot 3.1416}{2 \cdot 5}\right) \cdot \sqrt{4 \cdot \left(\cos\left(\frac{3.1416}{2 \cdot 5}\right)^2\right) - 1}}\right)^{\frac{1}{3}}}$$

5) Volume of Antiprism Formulas

5.1) Volume of Antiprism Formula

Evaluate Formula

Formula

$$V = \frac{N_{Vertices} \cdot \sin\left(\frac{3 \cdot \pi}{2 \cdot N_{Vertices}}\right) \cdot \sqrt{4 \cdot \left(\cos\left(\frac{\pi}{2 \cdot N_{Vertices}}\right)\right)^2 - 1} \cdot l_e^3}{12 \cdot \left(\sin\left(\frac{\pi}{N_{Vertices}}\right)\right)^2}$$

Example with Units

$$1578.6893\,\text{m}^3 = \frac{5 \cdot \sin\left(\frac{3 \cdot 3.1416}{2 \cdot 5}\right) \cdot \sqrt{4 \cdot \left(\cos\left(\frac{3.1416}{2 \cdot 5}\right)\right)^2 - 1} \cdot 10\,\text{m}^3}{12 \cdot \left(\sin\left(\frac{3.1416}{5}\right)\right)^2}$$

5.2) Volume of Antiprism given Height Formula

Evaluate Formula

Formula

$$V = \frac{N_{Vertices} \cdot \sin\left(\frac{3 \cdot \pi}{2 \cdot N_{Vertices}}\right) \cdot \sqrt{4 \cdot \left(\cos\left(\frac{\pi}{2 \cdot N_{Vertices}}\right)\right)^2 - 1} \cdot \left(\frac{h}{\sqrt{1 - \frac{\left(\sec\left(\frac{\pi}{2 \cdot N_{Vertices}}\right)\right)^2}{4}}}\right)^3}{12 \cdot \left(\sin\left(\frac{\pi}{N_{Vertices}}\right)\right)^2}$$

Example with Units

$$1313.145\,\text{m}^3 = \frac{5 \cdot \sin\left(\frac{3 \cdot 3.1416}{2 \cdot 5}\right) \cdot \sqrt{4 \cdot \left(\cos\left(\frac{3.1416}{2 \cdot 5}\right)\right)^2 - 1} \cdot \left(\frac{8\,\text{m}}{\sqrt{1 - \frac{\left(\sec\left(\frac{3.1416}{2 \cdot 5}\right)\right)^2}{4}}}\right)^3}{12 \cdot \left(\sin\left(\frac{3.1416}{5}\right)\right)^2}$$

5.3) Volume of Antiprism given Surface to Volume Ratio Formula

Evaluate Formula

Formula

$$V = \frac{N_{Vertices} \cdot \sin\left(\frac{3 \cdot \pi}{2 \cdot N_{Vertices}}\right) \cdot \sqrt{4 \cdot \left(\cos\left(\frac{\pi}{2 \cdot N_{Vertices}}\right)^2\right) - 1} \cdot \left(\frac{6 \cdot \left(\sin\left(\frac{\pi}{N_{Vertices}}\right)\right)^2 \cdot \left(\cot\left(\frac{\pi}{N_{Vertices}}\right) + \sqrt{3}\right)}{\sin\left(\frac{3 \cdot \pi}{2 \cdot N_{Vertices}}\right) \cdot \sqrt{4 \cdot \left(\cos\left(\frac{\pi}{2 \cdot N_{Vertices}}\right)^2\right) - 1} \cdot R_{A/V}}\right)^3}{12 \cdot \left(\sin\left(\frac{\pi}{N_{Vertices}}\right)\right)^2}$$

Example with Units

$$1506.4027\,\text{m}^3 = \frac{5 \cdot \sin\left(\frac{3 \cdot 3.1416}{2 \cdot 5}\right) \cdot \sqrt{4 \cdot \left(\cos\left(\frac{3.1416}{2 \cdot 5}\right)^2\right) - 1} \cdot \left(\frac{6 \cdot \left(\sin\left(\frac{3.1416}{5}\right)\right)^2 \cdot \left(\cot\left(\frac{3.1416}{5}\right) + \sqrt{3}\right)}{\sin\left(\frac{3 \cdot 3.1416}{2 \cdot 5}\right) \cdot \sqrt{4 \cdot \left(\cos\left(\frac{3.1416}{2 \cdot 5}\right)^2\right) - 1} \cdot 0.5\,\text{m}^{-1}}\right)^3}{12 \cdot \left(\sin\left(\frac{3.1416}{5}\right)\right)^2}$$

5.4) Volume of Antiprism given Total Surface Area Formula

Evaluate Formula

Formula

$$V = \frac{N_{Vertices} \cdot \sin\left(\frac{3 \cdot \pi}{2 \cdot N_{Vertices}}\right) \cdot \sqrt{4 \cdot \left(\cos\left(\frac{\pi}{2 \cdot N_{Vertices}}\right)^2\right) - 1} \cdot \left(\sqrt{\frac{TSA}{\frac{N_{Vertices}}{2} \cdot \left(\cot\left(\frac{\pi}{N_{Vertices}}\right) + \sqrt{3}\right)}}\right)^3}{12 \cdot \left(\sin\left(\frac{\pi}{N_{Vertices}}\right)\right)^2}$$

Example with Units

$$1587.5096\,\text{m}^3 = \frac{5 \cdot \sin\left(\frac{3 \cdot 3.1416}{2 \cdot 5}\right) \cdot \sqrt{4 \cdot \left(\cos\left(\frac{3.1416}{2 \cdot 5}\right)^2\right) - 1} \cdot \left(\sqrt{\frac{780\,\text{m}^2}{\frac{5}{2} \cdot \left(\cot\left(\frac{3.1416}{5}\right) + \sqrt{3}\right)}}\right)^3}{12 \cdot \left(\sin\left(\frac{3.1416}{5}\right)\right)^2}$$

Variables used in list of Antiprism Formulas above

- **h** Height of Antiprism *(Meter)*
- l_e Edge Length of Antiprism *(Meter)*
- $N_{Vertices}$ Number of Vertices of Antiprism
- $R_{A/V}$ Surface to Volume Ratio of Antiprism *(1 per Meter)*
- **TSA** Total Surface Area of Antiprism *(Square Meter)*
- **V** Volume of Antiprism *(Cubic Meter)*

Constants, Functions, Measurements used in list of Antiprism Formulas above

- constant(s): **pi**, 3.14159265358979323846264338327950288 *Archimedes' constant*
- Functions: **cos**, cos(Angle) *Cosine of an angle is the ratio of the side adjacent to the angle to the hypotenuse of the triangle.*
- Functions: **cot**, cot(Angle) *Cotangent is a trigonometric function that is defined as the ratio of the adjacent side to the opposite side in a right triangle.*
- Functions: **sec**, sec(Angle) *Secant is a trigonometric function that is defined ratio of the hypotenuse to the shorter side adjacent to an acute angle (in a right-angled triangle); the reciprocal of a cosine.*
- Functions: **sin**, sin(Angle) *Sine is a trigonometric function that describes the ratio of the length of the opposite side of a right triangle to the length of the hypotenuse.*
- Functions: **sqrt**, sqrt(Number) *A square root function is a function that takes a non-negative number as an input and returns the square root of the given input number.*
- Measurement: **Length** in Meter (m) *Length Unit Conversion*
- Measurement: **Volume** in Cubic Meter (m^3) *Volume Unit Conversion*
- Measurement: **Area** in Square Meter (m^2) *Area Unit Conversion*
- Measurement: **Reciprocal Length** in 1 per Meter (m^{-1}) *Reciprocal Length Unit Conversion*

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- Important Half Tetrahedron Formulas
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- Important Hollow Cuboid Formulas
- Important Hollow Cylinder Formulas
- Important Hollow Frustum Formulas
- Important Hollow Hemisphere Formulas
- Important Hollow Pyramid Formulas
- Important Hollow Sphere Formulas
- Important Ingot Formulas
- Important Obelisk Formulas
- Important Oblique Cylinder Formulas
- Important Oblique Prism Formulas
- Important Obtuse Edged Cuboid Formulas
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- Important Rhombohedron Formulas
- Important Right Wedge Formulas
- Important Semi Ellipsoid Formulas
- Important Sharp Bent Cylinder Formulas
- Important Skewed Three Edged Prism Formulas

- Important Small Stellated Dodecahedron Formulas
- Important Solid of Revolution Formulas
- Important Sphere Formulas
- Important Spherical Cap Formulas
- Important Spherical Corner Formulas
- Important Spherical Ring Formulas
- Important Spherical Sector Formulas
- Important Spherical Segment Formulas
- Important Spherical Wedge Formulas
- Important Square Pillar Formulas
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