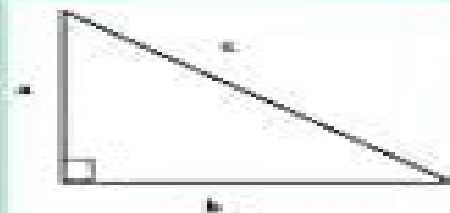


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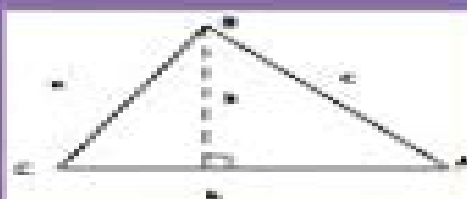
A table of formulas for geometry, related to area and perimeter of triangles, rectangles, circles, sectors, and volume of sphere, cone, cylinder are presented.



Right Triangle and Pythagoras's theorem

Pythagoras's theorem: The two sides, a and b , of a right triangle and the hypotenuse c are related by

$$a^2 + b^2 = c^2$$



Area and Perimeter of Triangle

$$\text{Perimeter} = a + b + c$$

There are several formulas for the area.

If the base b and the corresponding height h are known, we use the formula

$$\text{Area} = (1/2) \cdot b \cdot h$$

If two sides and the angle between them are known, we use one of the formulas, depending on which side and which angle are known.

$$\text{Area} = (1/2) \cdot b \cdot c \cdot \sin A$$

$$\text{Area} = (1/2) \cdot a \cdot c \cdot \sin B$$

$$\text{Area} = (1/2) \cdot a \cdot b \cdot \sin C$$

If all three sides are known, we may use Heron's formula for the area.

$$\text{Area} = \sqrt{s(s-a)(s-b)(s-c)}$$

where $s = (a + b + c)/2$



Area and Perimeter of Rectangle

$$\text{Perimeter} = 2L + 2W$$

$$\text{Area} = L \cdot W$$



Area of Parallelogram

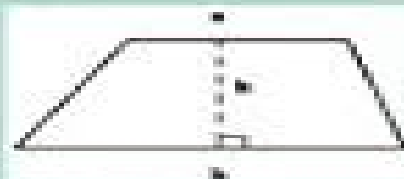
$$\text{Area} = b \cdot h$$



Circumference of a Circle and Area of a Circular Region

$$\text{Circumference} = 2\pi r$$

$$\text{Area} = \pi r^2$$



Area of Trapezoid

$$\text{Area} = (1/2)(a + b) \cdot h$$



Arclength and Area of a Circular Sector

$$\text{Arclength: } s = r \cdot t$$

$$\text{Area} = (1/2) \cdot r^2 \cdot t$$

where t is the central angle in RADIANS.

Geometric Formulas Speedy Study Guide

Michael Seilmaier



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