

Geometry

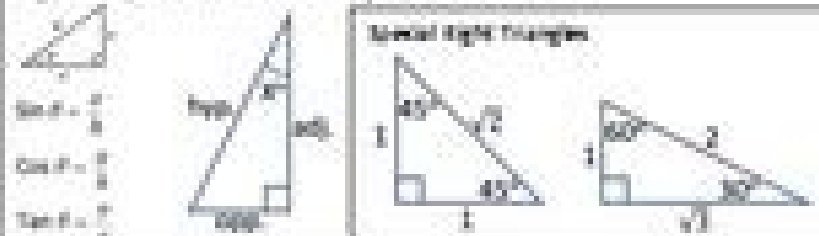
Geometry Study Guide

Right triangles

- Pythagorean Theorem: $a^2 + b^2 = c^2$ or $a = \sqrt{c^2 - b^2}$ or $b = \sqrt{c^2 - a^2}$
- Converse of Pythagorean Theorem: The right triangle is right triangle if the square of the largest number is equal to the sum of the squares of the 2 smaller numbers.

$a^2 + b^2 = c^2$ Right	$a^2 + b^2 > c^2$ Acute	$a^2 + b^2 < c^2$ Obtuse
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Trigonometry: Sine, Cosine, Tan, Sec, Csc, Cot



Quadrilaterals: Area, Perimeter, Diagonals



Triangles

Regular polygon: all sides equal, all angles equal

Area of

Regular Polygon

$$A = \frac{1}{2} \times P \times h$$

Area of

Regular Polygon

Area of a regular polygon with side length s :

$$A = \frac{1}{2} \times P \times h$$

Area of a regular polygon

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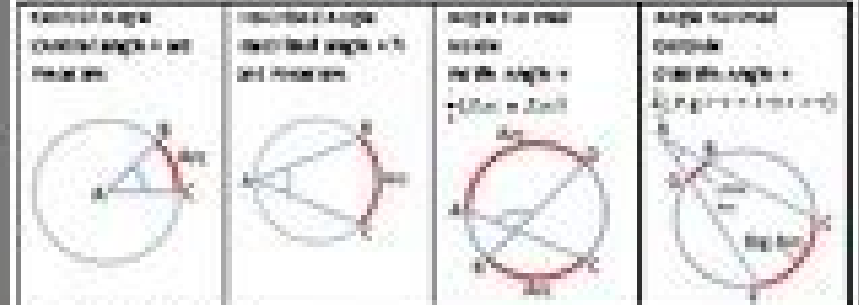
$$A = \frac{1}{2} \times P \times h$$

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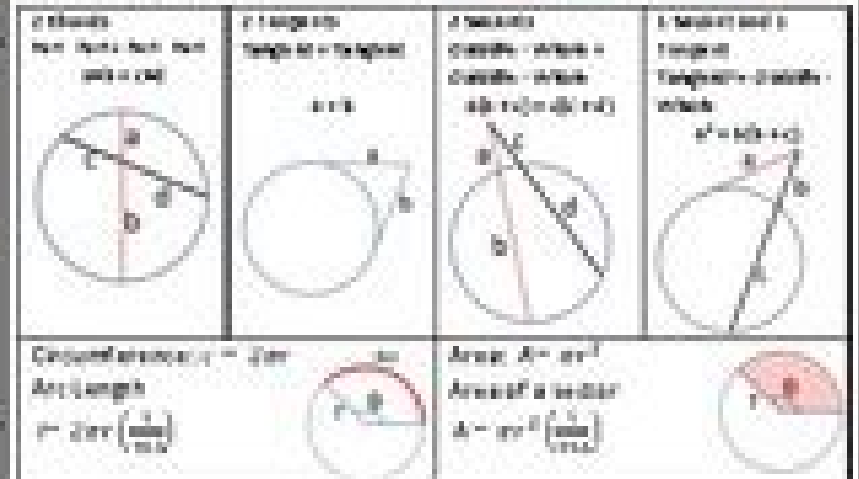
Area of a regular polygon: $A = \frac{1}{2} \times P \times h$, $A = \frac{1}{2} \times P \times h$, $A = \frac{1}{2} \times P \times h$, $A = \frac{1}{2} \times P \times h$, $A = \frac{1}{2} \times P \times h$

Circle Theorems

Chord, Secant, Tangent



Circle Theorems: Equal Angles



Equation of a circle: $(x - h)^2 + (y - k)^2 = r^2$

Change the sign of the constant in the equation, r^2 becomes $-r^2$

Area of

Circle

Area of a circle: $A = \pi r^2$

Area of a sector: $A = \frac{\theta}{360} \times \pi r^2$

Area of a segment: $A = \frac{1}{2} \times r^2 \times (\theta - \sin \theta)$

Geometry Study Guide High School

Lei Shi

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Geometry Study Guide High School:

This book delves into Geometry Study Guide High School. Geometry Study Guide High School is an essential topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Geometry Study Guide High School, encompassing both the fundamentals and more intricate discussions.

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