

STANFORD 10 REFERENCE SHEET

High School

FORMULAS FOR PLANE FIGURES

Parallelogram: $A = bh$

Trapezoid: $A = \frac{1}{2}(b_1 + b_2)h$

Right Triangle:

The Pythagorean Formula

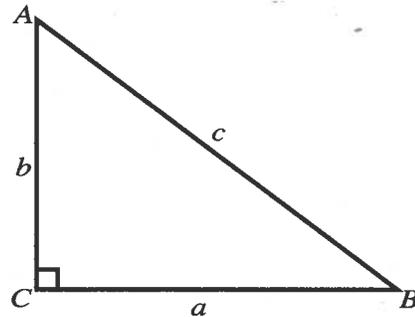
$$c^2 = a^2 + b^2$$

Trigonometric Ratios

$$\sin A = \frac{a}{c}$$

$$\cos A = \frac{b}{c}$$

$$\tan A = \frac{a}{b}$$



FORMULAS FOR SOLID FIGURES

Prism: $V = Bh$
 $LA = ph$

Right Cylinder: $V = \pi r^2 h$
 $SA = 2\pi r^2 + 2\pi rh$

Sphere: $V = \frac{4}{3}\pi r^3$
 $SA = 4\pi r^2$

LA is lateral surface area.
SA is total surface area.
B is the area of the base.
P is the perimeter of the base.
l is the slant height.

Right Cone: $V = \frac{1}{3}\pi r^2 h$
 $SA = \pi r(l + r)$

Regular Pyramid: $V = \frac{1}{3}Bh$
 $SA = B + \frac{1}{2}pl$

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