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:

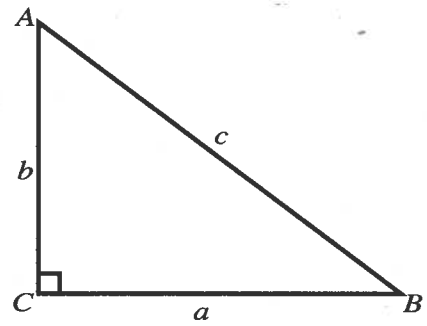
The Pythagorean Formula
$c^2 = a^2 + b^2$

Trigonometric Ratios

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

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

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



FORMULAS FOR SOLID FIGURES

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.

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

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

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

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

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

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