GEOMETRIC FORMULAS

Plane Geometry

Rectangle Area: A = lwPerimeter: P = 2l + 2w



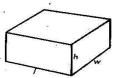
Square
Area: $A = s^2$

Perimeter: P = 4s

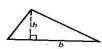


Rectangular Solid Volume: V = lwh

Solid Geometry



Triangle Area: $A = \frac{1}{2}bh$



Cube Volume: $V = s^3$



Sum of Angle Measures: $A + B + C = 180^{\circ}$



Right Circular Cylinder Volume: $V = \pi r^2 h$ Lateral Surface Area: $L = 2\pi rh$ Total Surface Area:



Right Triangle Pythagorean Theorem (Equation): $a^2 + b^2 = c^2$

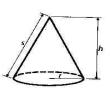


 $S = 2\pi rh + 2\pi r^2$

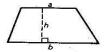
Parallelogram Area: A = bh



Right Circular Cone Volume: $V = \frac{1}{3}\pi r^2 h$ Lateral Surface Area: $L = \pi rs$ Total Surface Area: $S = \pi r^2 + \pi rs$ Slant Height: $s = \sqrt{r^2 + h^2}$



Trapezoid Area: $A = \frac{1}{2}h(a + b)$



Circle
Area: $A = \pi r^2$ Circumference: $C = \pi D = 2\pi r$ (\$\frac{2}{3}\$ and 3.14 are different approximations for \$\pi\$)



Sphere Volume: $V = \frac{4}{3}\pi r^3$ Surface Area: $S = 4\pi r^2$

