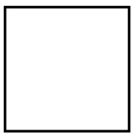
Geometry Formulas Sheet

Square



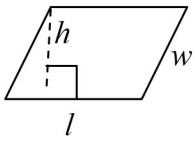
$A = s^2$ $P = 4s$

Rectangle

$A = lw$

$P = 2l + 2w$

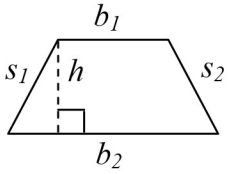
Parallelogram



$A = lh$ $P = 2l + 2w$

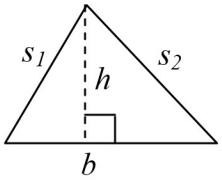
Trapezoid

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



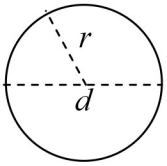
$P = s_1 + s_2 + b_1 + b_2$

Triangle



$A = \frac{1}{2}bh$ $P = s_1 + s_2 + b$

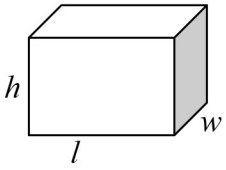
Circle



$A = \pi * r^2$

$C = 2\pi * r$ or $C = \pi * d$

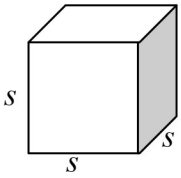
Rectangular Solid



$V = lwh$

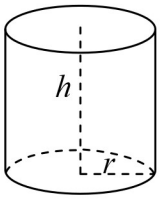
$S = 2lh + 2wh + 2wl$

Cube



$V = s^3$ $S = 6s^2$

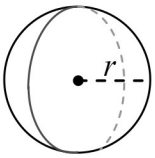
Right Circular Cylinder



$V = \pi * r^2 h$

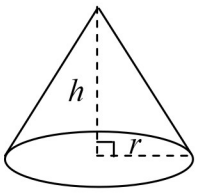
$S = 2\pi * rh + 2\pi * r^2$

Sphere



$V = \frac{4}{3}\pi * r^3$ $S = 4\pi * r^2$

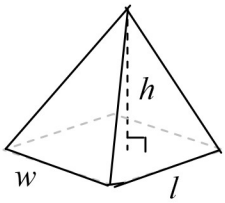
Right Circular Cone



$V = \frac{1}{3}\pi * r^2 h$

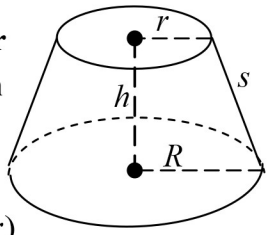
$S = \pi * r\sqrt{r^2 + h^2}$

Square or Rectangular Pyramid



$V = \frac{1}{3}lwh$

Right Circular Cone Frustum



$S = \pi * s(R + r)$

$V = \frac{\pi(r^2 + rR + R^2)h}{3}$

Geometric Symbols

A = Area
P = Perimeter
V = Volume
S = Surface Area
C = Circumference
π = PI Constant

$\angle A$	angle A
m $\angle A$	measure of angle A
$\overline{AB}$	line segment AB
AB	measure of line
$\overleftrightarrow{AB}$	segment AB line AB
$\triangle ABC$	triangle ABC
$ABCD$	rectangle $ABCD$
$ABCD$	parallelogram $ABCD$

$\overrightarrow{AB}$	vector AB
	right angle
$\overline{AB} \parallel \overline{CD}$	Line AB is parallel to line CD.
$\overleftrightarrow{AB} \perp \overleftrightarrow{CD}$	Line AB is perpendicular to line CD.
$\angle A \cong \angle B$	Angle A is congruent to angle B.
$\triangle A \sim \triangle B$	Triangle A is similar to triangle B.
	Similarly marked segments are congruent.
	Similarly marked angles are congruent.