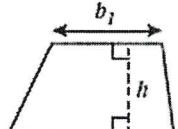


Geometry Formula Sheet

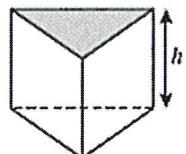
Geometric Formulas



$$A = \frac{1}{2} bh$$



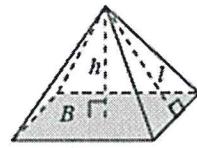
$$A = \frac{1}{2} h(b_1 + b_2)$$



$$V = Bh$$

$$L.A. = hp$$

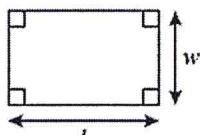
$$S.A. = L.A. + 2B$$



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

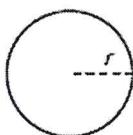
$$L.A. = \frac{1}{2} lp$$

$$S.A. = L.A. + B$$



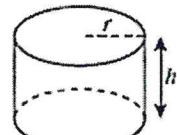
$$A = lw$$

$$p = 2(l + w)$$



$$A = \pi r^2$$

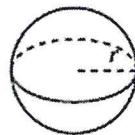
$$C = 2\pi r$$



$$V = \pi r^2 h$$

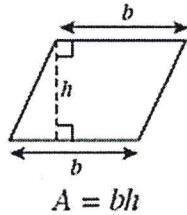
$$L.A. = 2\pi rh$$

$$S.A. = 2\pi r(h + r)$$

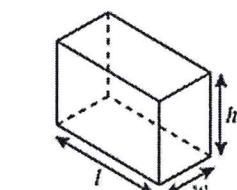


$$V = \frac{4}{3} \pi r^3$$

$$S.A. = 4\pi r^2$$

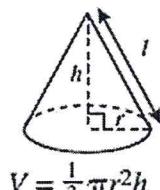


$$A = bh$$



$$V = lwh$$

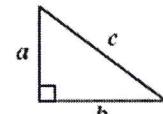
$$S.A. = 2lw + 2lh + 2wh$$



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

$$L.A. = \pi rl$$

$$S.A. = \pi r(l + r)$$



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

Geometric Symbols

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

Example	Meaning
\overrightarrow{AB}	vector AB
\rightleftharpoons	right angle
$\overleftrightarrow{AB} \parallel \overleftrightarrow{CD}$	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.

Abbreviations

Volume	V
Lateral Area	L.A.
Total Surface Area	S.A.
Area of Base	B

Pi

$$\pi \approx 3.14$$

$$\pi \approx \frac{22}{7}$$