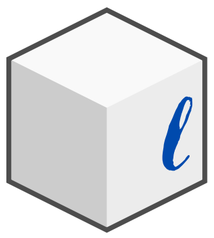
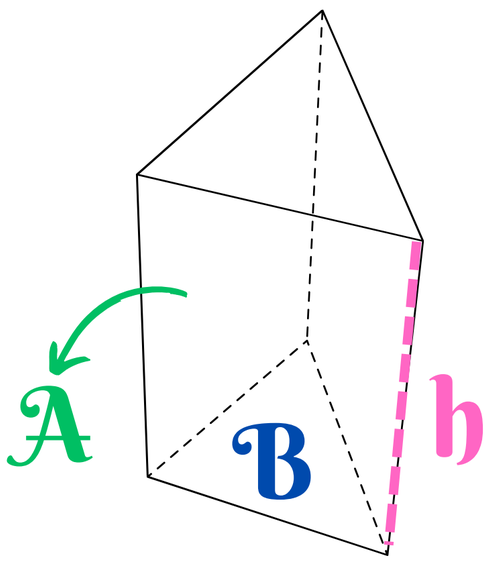
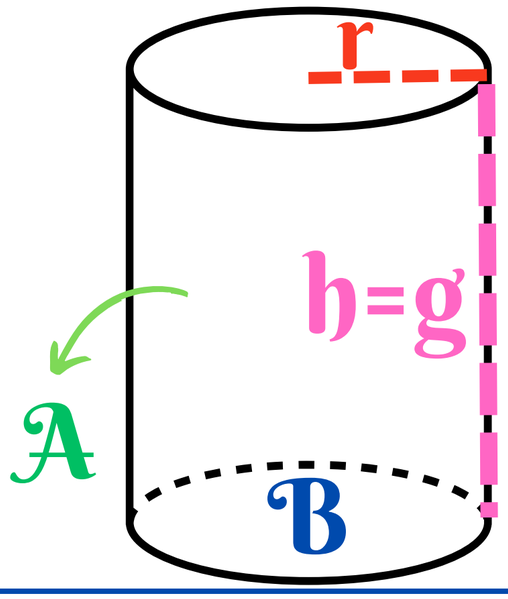
SOLID GEOMETRY

KNOWLEDGE FOR THE WORLD

TEXAN GLOBAL SCHOOL
Global Online Learning

SOLID	VARIABLES	SURFACE AREA	VOLUME
 CUBE	ℓ = Side	$S=6\ell^2$	$V=\ell^3$
PRISM 	B= Area of the Base A= Area of the lateral face h=height	$S=2B+\eta A$ Where: η=number of lateral faces	$V=B*h$
CYLINDER 	B= Area of the Base A= Area of the cylindrical surface h=height=g= generatrix r=radius	$S=2B+A$ Where: $B=\pi r^2$ $A=2\pi rg$	$V=B*h$

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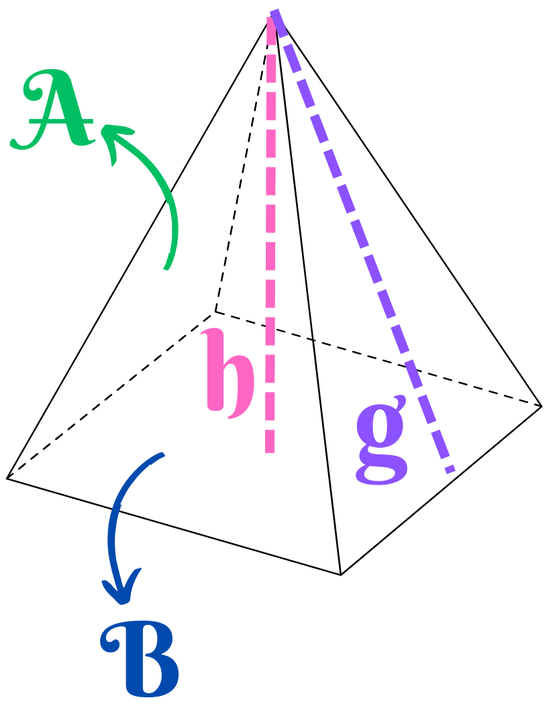
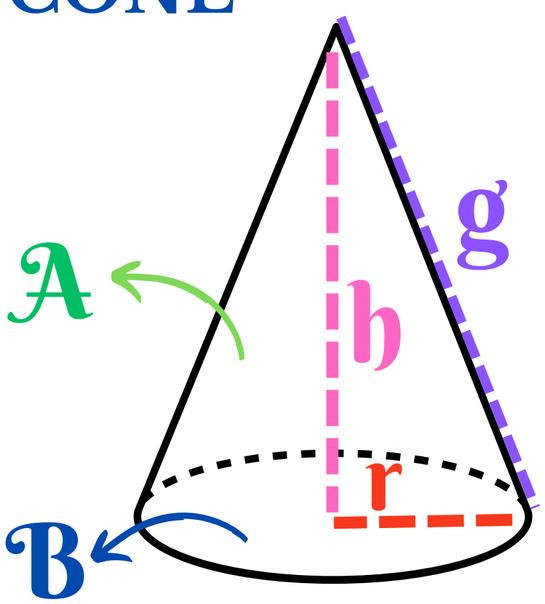
PYRAMID 	B= Area of the Base A= Area of the lateral face h=height g=generatrix or slant height	$S=B+nA$ Where: n=number of lateral faces	$V=\frac{B*h}{3}$
CONE 	B= Area of the Base A= Area of the conical surface h=height g=generatrix or slant height r=radius	$S=B+A$ Where: $B=\pi r^2$ $A=\pi rg$	$V=\frac{B*h}{3}$

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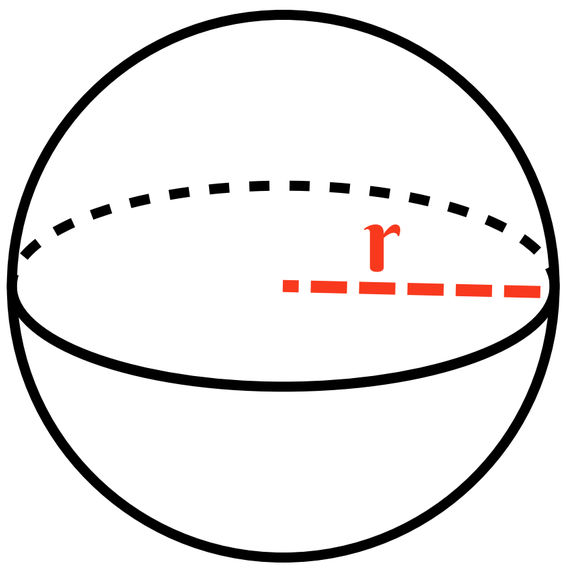
SPHERE 	r=radius	$S=4\pi r^2$	$V=\frac{4\pi r^3}{3}$ $V=S\frac{1}{3}r$