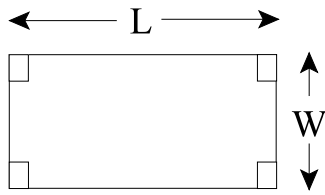# Geometric Formulas

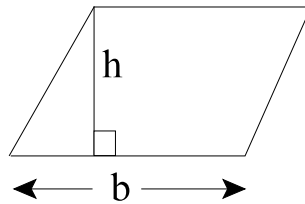(B = the Area of the Base)　　(P = the Perimeter of the Base)　　(ℓ = the Slant Height)
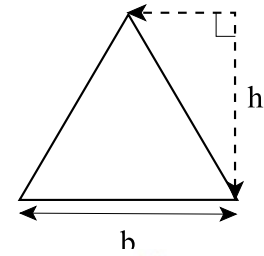
$A = LW$
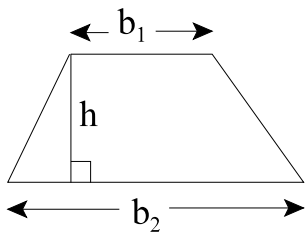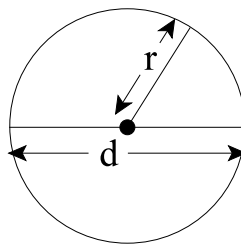$P = 2L + 2W$
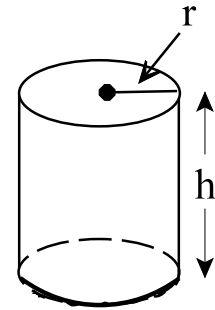
$A = bh$

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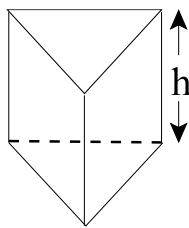
$A = \dfrac{1}{2}h(b_1 + b_2)$

$A = \pi r^2$
$C = \pi d$
or
$C = 2\pi r$

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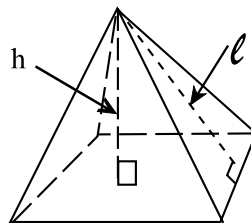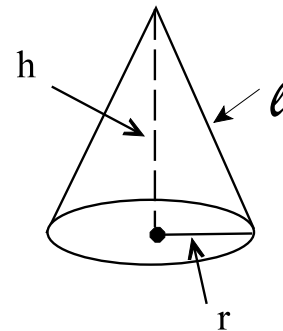$V = \pi r^2 h$

$V = Bh$
$SA = 2B + Ph$
(B = Area of base)
(P = Perimeter of base)

$SA = B + \frac{1}{2}P\ell$
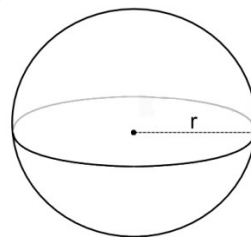(ℓ = slant height)
$V = \frac{1}{3}Bh$

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

$V = \dfrac{4}{3}\pi r^3$　　$SA = 4\pi r^2$