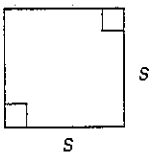
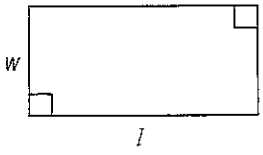
FORMULA SHEET

Formulas that you may need to work questions in this document are found below.
You may use calculator π or the number 3.14.

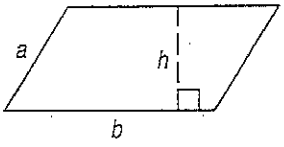
Plane Figure Formulas



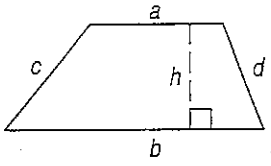
$P = 4s$
$A = s \cdot s$



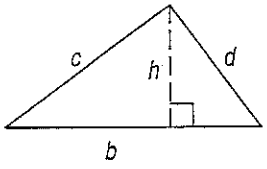
$P = 2l + 2w$
$A = lw$



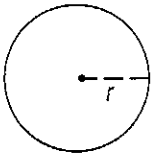
$P = 2a + 2b$
$A = bh$



$P = a + b + c + d$
$A = \frac{1}{2}h(a + b)$



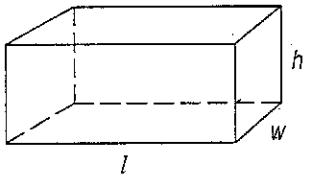
$P = b + c + d$
$A = \frac{1}{2}bh$



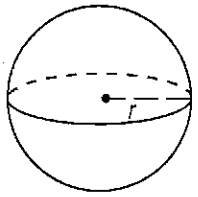
$C = 2\pi r$
$A = \pi r^2$

Sum of angle measures = $180(n - 2)$,
where n = number of sides

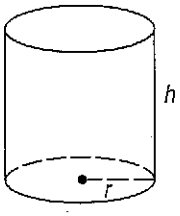
Solid Figure Formulas



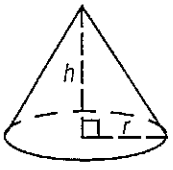
$SA = 2lw + 2lh + 2wh$
$V = lwh$



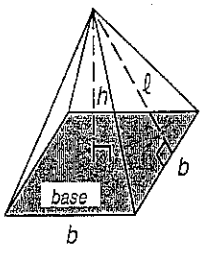
$SA = 4\pi r^2$
$V = \frac{4}{3}\pi r^3$



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



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



SA = (Area of the base) + $\frac{1}{2}$(number of sides)(b)(ℓ)

$V = \frac{1}{3}$(Area of the base)(h)

Euler's Formula for Polyhedra:

$V - E + F = 2$

vertices minus edges plus faces = 2