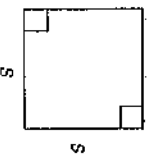


FORMULA SHEET

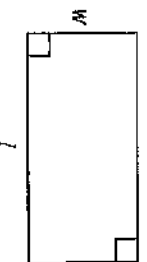
Formulas that you may need to work questions in this document are found below.
You may use calculator π or the number 3.14.

Plane Figure Formulas



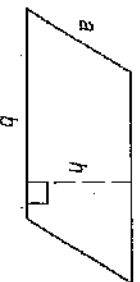
$$P = 4s$$

$$A = s \cdot s$$



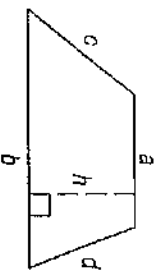
$$P = 2l + 2w$$

$$A = lw$$



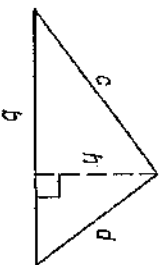
$$P = 2a + 2b$$

$$A = bh$$



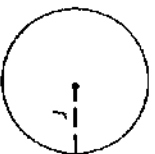
$$P = a + b + c + d$$

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



$$P = b + c + d$$

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

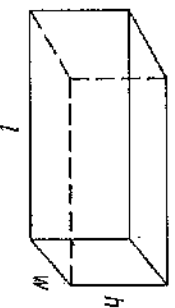


$$C = 2\pi r$$

$$A = \pi r^2$$

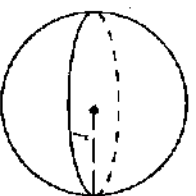
Sum of angle measures = $180(n - 2)$,
where n = number of sides

Solid Figure Formulas



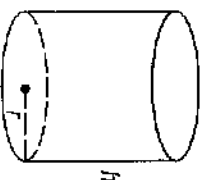
$$SA = 2lw + 2lh + 2wh$$

$$V = lwh$$



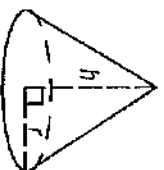
$$SA = 4\pi r^2$$

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



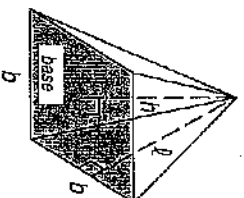
$$SA = 2\pi r^2 + 2\pi rh$$

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



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

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



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

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

Euler's Formula for Polyhedra:

$$V - E + F = 2$$

vertices minus edges plus faces = 2