Mathematics Formula Sheet

Explanation of Symbols	
b = base *d = distance* *h = height* *l = slant height* *r = radius*	*A = Area* *B = Area of Base* *C = Circumference* *LA = Lateral Area* *P = Perimeter of Base* *S = Surface Area* *V = Volume*

$$C = 2\pi r$$
$$A = \tfrac{1}{2}bh$$
$$A = bh$$
$$A = \tfrac{1}{2}h(b_1 + b_2)$$

$$A = \pi r^2$$
$$V = Bh$$
$$V = \tfrac{1}{3}Bh$$
$$V = \tfrac{4}{3}\pi r^3$$

$$S = 4\pi r^2$$
$$LA = Ph$$
$$LA = \tfrac{1}{2}Pl$$
$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$
Midpoint of a segment = $\left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}\right)$