## GEOMETRY

Area of a Circle: $A=\pi r^{2}$
Circumference of a Circle: $C=2 \pi r$
Area of a Triangle: $A=\frac{1}{2} a b$
Area of a Trapezoid: $A=\frac{1}{2} h\left(b_{1}+b_{2}\right)$
Lateral Area of a Right Circular Cylinder: $L=2 \pi r h$
Lateral Area of a Right Circular Cone: $L=\pi r l$ where $/$ is the slant height
Surface Area of a Cube: $S A=6 s^{2}$
Surface Area of a Rectangular Prism: $S A=2 / w+2 h w+2 / h$
Surface Area of a Cylinder: $S A=2 \pi r^{2}+2 \pi r h$
Surface Area of a Sphere: $S A=4 \pi r^{2}$
Volume of a Rectangular Prism: $V=l \cdot w \cdot h$
Volume of a Cylinder: $V=\pi r^{2} h$
Volume of a Pyramid: $V=\frac{1}{3} B h$ where $B$ is the area of the base
Volume of a Right Circular Cone: $V=\frac{1}{3} \pi r^{2} h$
Volume of a Sphere: $V=\frac{4}{3} \pi r^{3}$

## COORDINATE GEOMETRY

Equation of a Line: $y=m x+b$
Slope of a Line: $m=\frac{\Delta y}{\Delta x}=\frac{y_{2}-y_{1}}{x_{2}-x_{1}}$

