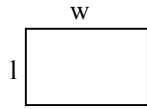


Geometric Formulae Every Student Should Know

Plane figure

Rectangle



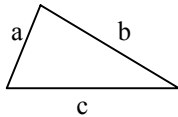
Perimeter

$$P = 2(l + w)$$

Area

$$A = lw$$

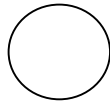
Triangle



$$P = a + b + c$$

$$A = \frac{1}{2} b h$$

Circle



$$C = 2 \pi r$$

$$= \pi d$$

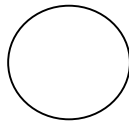
(circumference)

$$A = \pi r^2$$

(Note: the area of a trapezoid, $A = \frac{1}{2} h (a+b)$, will be given to you when needed on any of my tests.)

Solid figure

Sphere



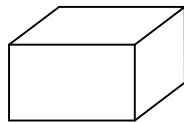
Volume

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

Surface Area

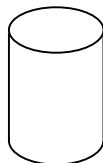
$$A = 4\pi r^2$$

Rectangular prism



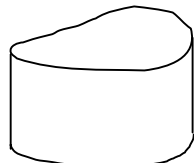
$$V = l w h$$

Cylinder



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

Generic prism



$$V = B h \quad \text{where } B \text{ is the area of the base}$$

and h is the height