

Geometry Formulas

You are responsible to know the following geometry formulas throughout the course.

Area of a plane figure

Rectangle: $A = lw$

Parallelogram: $A = bh$

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

Trapezoid: $A = \frac{1}{2}h(B + b)$

Circle: $A = \pi r^2$

Surface Area of a solid figure

Rectangular solid: $SA = 2lw + 2lh + 2wh$

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

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

Volume of a solid figure

Rectangular solid: $V = lwh$

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

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

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