Math

Midpoint and Distance

Math

Midpoint

$$(x1 + x2/2, y1 + y2/2)$$

Distance

$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

Math

Quadratic Formula

Math

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

Math

Circles

Math

Area of a Circle

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

Circumference of a Circle

$$C = \pi \cdot d$$

Math

Area of 2D figures

Math

Area of a Square or Rectangle

$$A = lw$$

Area of a Triangle

$$A = 1/2bh$$

Area of a Trapezoid

$$A = \frac{b_1 + b_2}{2} \cdot h$$

Math

Volume of 3D figures

Math

Volume of a Cube or Rectangular Prism

$$V = lwh$$

Volume of a Triangle

$$V = \text{area of base} \cdot \text{height} \cdot 1/3$$

Volume of a Sphere

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

Math

Rate Formula

Math

$$\text{rate} = \text{distance} \cdot \text{time}$$