General Formulas

Circumference of a Circle

$$O=2\cdot\pi\cdot r$$

Area of a Circle

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

Surface Area of a Ball

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

Volume of a Ball

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

Volume of a Cylinder (base times height)

 $V = A \cdot h$

Logarithms

$$\log(a \cdot b) = \log(a) + \log(b)$$
$$\log(a^{c}) = c \cdot \log(a)$$
$$\lg(a) = d \implies a = 10^{d}$$
$$\ln(a) = d \implies a = e^{d}$$