Precalculus Formula Sheet

The key formulas in one printable page

Log definition

$$\log_b y = x \iff b^x = y$$

Log of a product

$$\log(ab) = \log a + \log b$$

Log of a quotient

$$\log \frac{a}{b} = \log a - \log b$$

Log of a power

$$\log a^n = n \log a$$

Change of base

$$\log_b a = \frac{\ln a}{\ln b}$$

Pythagorean identity

$$\sin^2 \theta + \cos^2 \theta = 1$$

Double angle

$$\sin 2\theta = 2 \sin \theta \cos \theta$$

Compound interest

$$A = P\left(1 + \frac{r}{n}\right)^{nt}$$

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