

Trigonometry, exponents and logarithms

Rule	Formula
SOH CAH TOA	$\sin = \text{opp/hyp}, \cos = \text{adj/hyp}, \tan = \text{opp/adj}$
Pythagorean identity	$\sin^2\theta + \cos^2\theta = 1$
Law of sines	$a/\sin A = b/\sin B = c/\sin C$
Law of cosines	$c^2 = a^2 + b^2 - 2ab \cos C$
Product of powers	$a^m \cdot a^n = a^{m+n}$
Power of a power	$(a^m)^n = a^{mn}$
Log product	$\log(xy) = \log x + \log y$
Change of base	$\log_a x = \ln x / \ln a$

Notes