Precalculus formula sheet

Topic	Formula
Quadratic formula	$x = (-b \pm \sqrt{(b^2 - 4ac)}) / 2a$
Vertex	$h = -b/2a$, $k = f(h)$
Distance	$\sqrt{((x_2 - x_1)^2 + (y_2 - y_1)^2)}$
Slope	$(y_2 - y_1)/(x_2 - x_1)$
Log rules	$\log(xy) = \log x + \log y$; $\log(x^n) = n \log x$
Change of base	log_b x = ln x / ln b
Pythagorean identity	$\sin^2\theta + \cos^2\theta = 1$
Radians	$\theta(\text{rad}) = \theta(\text{deg}) \times \pi/180$
Compound interest	A = P(1 + r/n)^(nt)
Exponential growth	$A = A_0e^{(kt)}$

Notes

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