

Pre-Calculus Mathematics 11 Formula Sheet

Trigonometry

$$\tan x = \frac{\sin x}{\cos x}$$

$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

$$a^2 = b^2 + c^2 - 2bc \cos A$$

$$\cos A = \frac{b^2 + c^2 - a^2}{2bc}$$

Linear Relations

$$y = mx + b$$

$$y - y_1 = m(x - x_1)$$

$$Ax + By + C = 0$$

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

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

Quadratic Functions and Equations

$$y = ax^2 + bx + c$$

$$y = a(x - p)^2 + q$$

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

Finance

$$I = Prt$$

$$A = P(1 + i)^n$$

Graphing Calculator

$$x: [x_{min}, x_{max}, x_{scl}]$$

$$y: [y_{min}, y_{max}, y_{scl}]$$