

Pre-Calc 11 Formula Sheet

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

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

3) $y = mx + b$

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

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

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

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

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

9) $t_n = t_1 + (n - 1)d$ $S_n = \frac{n}{2}(t_1 + t_n)$ $S_n = \frac{n}{2}[2t_1 + (n - 1)d]$

10) $t_n = t_1 r^{n-1}$ $S_n = \frac{t_1(r^n - 1)}{r - 1}$ $S_n = \frac{rt_n - t_1}{r - 1}$ $S_\infty = \frac{t_1}{1 - r}$

11)

