Pre-Calculus 11 Formula Sheet

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

$t_n = t_1 \cdot r^{n-1}$ $\quad$ $S_n = \frac{t_1(r^n - 1)}{r-1}$ $\quad$ $S_n = \frac{r \cdot t_n - t_1}{r-1}$

$S_\infty = \frac{t_1}{1-r}$

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

$a^2 = b^2 + c^2 - 2bc \cdot \cos A$ $\quad$ $b^2 = a^2 + c^2 - 2ac \cdot \cos B$ $\quad$ $c^2 = a^2 + b^2 - 2ab \cdot \cos C$

$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ $\quad$ $y = a(x-p)^2 + q$ $\quad$ $y = ax^2 + bx + c$

$y = mx + b$