

Math 20-1 Formula Sheet

(this clean sheet is available for all tests)

Arithmetic Sequences & Series:

$$a_n = a_1 + (n-1)d \quad S_n = \frac{n}{2}[2a + (n-1)d] = \frac{n}{2}[a + a_n]$$

Geometric Sequences & Series:

$$a_n = ar^{(n-1)} \quad S_n = \frac{a(1-r^n)}{1-r} \quad S = \frac{a}{1-r}$$

Quadratic Formula:

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

Trigonometry:

$$c^2 = a^2 + b^2 - 2ab \cos C$$

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

