Reference Sheet

Area of a Triangle

$$K = \frac{1}{2} ab \sin C$$

Functions of the Sum of Two Angles $\sin (A + B) = \sin A \cos B + \cos A \sin B$

$$\cos (A + B) = \cos A \cos B - \sin A \sin B$$

$$\tan (A + B) = \frac{\tan A + \tan B}{1 - \tan A \tan B}$$

Functions of the Difference of Two Angles $\sin (A - B) = \sin A \cos B - \cos A \sin B$

$$\cos (A - B) = \cos A \cos B + \sin A \sin B$$

$$\tan (A - B) = \frac{\tan A - \tan B}{1 + \tan A \tan B}$$

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

Sum of a Finite Arithmetic Series

$$S_n = \frac{n(a_1 + a_n)}{2}$$

Binomial Theorem

$$(a+b)^n = {}_nC_0a^nb^0 + {}_nC_1a^{n-1}b^1 + {}_nC_2a^{n-2}b^2 + \dots + {}_nC_na^0b^n$$

$$(a+b)^n = \sum_{n=0}^n C_na^{n-r}b^r$$

Law of Cosines $a^2 = b^2 + a^2 = 2$

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

Functions of the Double Angle $\sin 2A = 2 \sin A \cos A$

$$\cos 2A = \cos^2 A - \sin^2 A$$
$$\cos 2A = 2\cos^2 A - 1$$

$$\cos 2A = 2\cos A - 1$$
$$\cos 2A = 1 - 2\sin^2 A$$

$$\tan 2A = \frac{2 \tan A}{1 - \tan^2 A}$$

Functions of the Half Angle

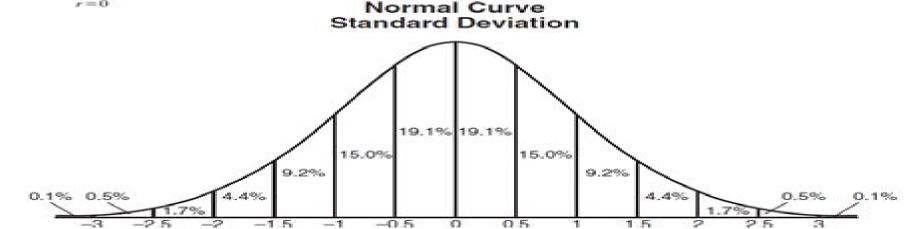
$$\sin\frac{1}{2}A = \pm\sqrt{\frac{1-\cos A}{2}}$$

$$\cos\frac{1}{2}A = \pm\sqrt{\frac{1+\cos A}{2}}$$
$$\tan\frac{1}{2}A = \pm\sqrt{\frac{1-\cos A}{1+\cos A}}$$

$$\tan \frac{\pi}{2} A = \pm \sqrt{1 + \cos A}$$

Sum of a Finite Geometric Series $S_n = \frac{a_1(1-r^n)}{1-r}$

$$S_n = \frac{1}{1-r}$$



Algebra 2 With Trigonometry

Arthur F. Coxford

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