General Trigonometric Relationships

$$\sin^2\theta + \cos^2\theta = 1$$

$$\sin\theta/2 = \sqrt{\tfrac{1}{2}(1-\cos\theta)}$$

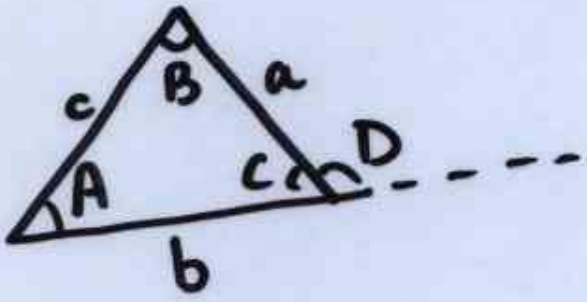
$$\cos\theta/2 = \sqrt{\tfrac{1}{2}(1+\cos\theta)}$$

$$\sin 2\theta = 2\sin\theta\cos\theta$$

$$\cos 2\theta = \cos^2\theta - \sin^2\theta$$

$$\sin(a \pm b) = \sin a \cos b \pm \cos a \sin b$$

$$\cos(a \pm b) = \cos a \cos b \mp \sin a \sin b$$



$$\frac{a}{b} = \frac{\sin A}{\sin B}$$ ... Sine Law

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

$$c^2 = a^2 + b^2 + 2ab\cos D$$

Cosine Law