

$$\sin(\alpha + \beta) = \sin\alpha \cdot \cos\beta + \sin\beta \cdot \cos\alpha$$

$$\sin(\alpha - \beta) = \sin\alpha \cdot \cos\beta - \sin\beta \cdot \cos\alpha$$

$$\cos(\alpha + \beta) = \cos\alpha \cdot \cos\beta - \sin\alpha \cdot \sin\beta$$

$$\sin^2\alpha = 2\sin\alpha \cdot \cos\alpha$$

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