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

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

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

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

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