

Sin / Cos / Tan

Csc / Sec / Cot

$$\sin \theta = \frac{1}{\csc \theta}$$

$$\cos \theta = \frac{1}{\sec \theta}$$

$$\tan \theta = \frac{1}{\cot \theta}$$

$$\sec \theta = \frac{1}{\cos \theta}$$

$$\csc \theta = \frac{1}{\sin \theta}$$

$$\cot \theta = \frac{1}{\tan \theta}$$

$$\tan \theta = \frac{\sin \theta}{\cos \theta}$$

$$\cot \theta = \frac{\cos \theta}{\sin \theta}$$

$$\sin \left(\frac{\pi}{2} - \theta \right) = \cos \theta$$

$$\cos \left(\frac{\pi}{2} - \theta \right) = \sin \theta$$

$$\tan \left(\frac{\pi}{2} - \theta \right) = \cot \theta$$

$$\sec \left(\frac{\pi}{2} - \theta \right) = \csc \theta$$

$$\csc \left(\frac{\pi}{2} - \theta \right) = \sec \theta$$

$$\cot \left(\frac{\pi}{2} - \theta \right) = \tan \theta$$

$$\sin(90^\circ - 20^\circ) = \cos 20^\circ$$

$$\sin(-\theta) = -\sin\theta$$

$$\cos(-\theta) = \cos\theta$$

$$\tan(-\theta) = -\tan\theta$$

$$\sec(-\theta) = \sec\theta$$

$$\csc(-\theta) = -\csc\theta$$

$$\cot(-\theta) = -\cot\theta$$

$$\underline{x^2} + \underline{y^2} = 1 \quad (x, y)$$

$$\underline{\cos\theta}$$

$$\underline{\sin\theta}$$

$$\underline{\cos^2\theta} + \underline{\sin^2\theta} = 1$$

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

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

$$\frac{\sin^2 \theta}{\sin^2 \theta} \quad \frac{\cos^2 \theta}{\sin^2 \theta} \quad \frac{1}{\sin^2 \theta}$$

$$1 + \cot^2 \theta = \csc^2 \theta$$

$$\cot^2 \theta = \csc^2 \theta - 1$$

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

$$\frac{\sin^2 \theta}{\cos^2 \theta} \quad \frac{\cos^2 \theta}{\cos^2 \theta} \quad \frac{1}{\cos^2 \theta}$$

$$\tan^2 \theta + 1 = \sec^2 \theta$$

$$\tan^2 \theta = \sec^2 \theta - 1$$

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

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