

Name : \_\_\_\_\_

# Fundamental Trigonometric Identities

## Quotient Identities

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

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

## Reciprocal Identities

1

1

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## Pythagorean Identities

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

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

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

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

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

$$\tan (90^\circ - \theta) = \cot \theta$$

$$\cot (90^\circ - \theta) = \tan \theta$$

$$\sec (90^\circ - \theta) = \csc \theta$$

$$\csc (90^\circ - \theta) = \sec \theta$$

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

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

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