

# Pre Calculus: Trig. Identities

Name \_\_\_\_\_

Date \_\_\_\_\_ Period \_\_\_\_\_

## Reciprocal Identities:

$$\sin(u) =$$

$$\csc(u) =$$

$$\cos(u) =$$

$$\sec(u) =$$

$$\tan(u) =$$

$$\cot(u) =$$

## Quotient Identities:

$$\tan(u) =$$

$$\cot(u) =$$

## Pythagorean Identities:

$$\sin^2(u) + \cos^2(u) =$$

$$1 + \tan^2(u) =$$

$$1 + \cot^2(u) =$$

or

$$\sin^2(u) =$$

$$\tan^2(u) =$$

$$\cot^2(u) =$$

or

$$\cos^2(u) =$$

## Cofunction Identities:

$$\sin(\pi/2 - u) =$$

$$\cos(\pi/2 - u) =$$

$$\csc(\pi/2 - u) =$$

$$\sec(\pi/2 - u) =$$

$$\tan(\pi/2 - u) =$$

$$\cot(\pi/2 - u) =$$

## Even Identities:

$$\cos(-u) =$$

$$\sec(-u) =$$

## Odd Identities:

$$\sin(-u) =$$

$$\csc(-u) =$$

$$\tan(-u) =$$

$$\cot(-u) =$$