Reciprocal Identities

$\sin \theta = \frac{1}{\csc \theta}$	$\cos \theta = \frac{1}{\sec \theta}$	$\tan \theta = \frac{1}{\cot \theta}$
$\csc \theta = \frac{1}{\sin \theta}$	$\sec \theta = \frac{1}{\cos \theta}$	$\cot \theta = \frac{1}{\tan \theta}$

Quotient Identities

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

Pythagorean Identities

$$\sin^2 \theta + \cos^2 \theta = 1$$
 $\tan^2 \theta + 1 = \sec^2 \theta$ $1 + \cot^2 \theta = \csc^2 \theta$

Negative Angle Identities

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John Bird

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