

TRIGONOMETRIC IDENTITIES

Connect the equivalents. Then find the isosceles, right triangle formed.

		$\tan^2 x + 1$	$\cos^2 x - \sin^2 x$	
		$1 + \cot^2 x$		$\tan^2 x$
				$-\sin x$
$1 - \sin^2 x$			$4 \csc x$	
	$\frac{\sin^2 x}{\cos^2 x}$			$\cos(2x)$
$3 \sec x$	$\frac{4}{\sin x}$	$2 \sin x \cos x$		$\cos(-x)$
				$\sin(x-y)$
$5 \sin x \csc x$	$\sin(x+y)$	$\cos(x+y)$		$\sec^2 x$
			$\cos^2 x$	
		$\csc^2 x$		$\cos x \cos y - \sin x \sin y$
				$\tan(-x)$
	$-\tan x$			$\sin x \cos y - \cos x \sin y$
	$7 \tan x \cot x$			$4 \cot x$
				$\sin x \cos y + \cos x \sin y$
	$\sin(-x)$			
$\frac{4 \cos x}{\sin x}$		$\cos x$		$7$
	$\frac{3}{\cos x}$	$\sin(2x)$	$5$	