TRIGONOMETRIC IDENTITIES

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

$\tan^2 x + 1$

$\cos^2 x - \sin^2 x$

$\tan^2 x$

$1 + \cot^2 x$

$-\sin x$

$1 - \sin^2 x$

$4 \csc x$

$\frac{\sin^2 x}{\cos^2 x}$

$\cos(2x)$

$2 \sin x \cos x$

$\cos(-x)$

$3 \sec x$

$\frac{4}{\sin x}$

$\sin(x-y)$

$\sec^2 x$

$5 \sin x \csc x$

$\sin(x+y)$

$\cos(x+y)$

$\cos^2 x$

$\csc^2 x$

$\cos x \cos y - \sin x \sin y$

$\tan(-x)$

$-\tan x$

$\sin x \cos y - \cos x \sin y$

$7 \tan x \cot x$

$4 \cot x$

$\sin(-x)$

$\sin x \cos y + \cos x \sin y$

$\frac{4 \cos x}{\sin x}$

7

$\cos x$

5

$\frac{3}{\cos x}$

$\sin(2x)$