Trigonometric Identities · 1

Simplify: $\tan x / \sec x$

Trigonometric Identities · 2

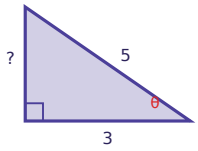
Simplify: $\sec^2 x \cdot \cos^2 x - \sin^2 x$

Trigonometric Identities · 3

Simplify: $(\csc^2 x - 1) \cdot \tan^2 x$

Trigonometric Identities · 4

$\cos \theta = \frac{3}{5}$ and $\theta$ is in quadrant I. Find the exact value of $\tan \theta$.




Trigonometric Identities · 5

Simplify: $\tan^2 x \cdot \cos^2 x$

Trigonometric Identities · 6

Simplify: $\frac{1}{1 + \cot^2 x}$

Trigonometric Identities · 7

Simplify: $\sin x \cdot \cos x \cdot \sec x \cdot \csc x$

Trigonometric Identities · 8

$\sin \theta = -\frac{7}{25}$ and $\theta$ is in quadrant IV. Find the exact value of $\cos \theta$.

Trigonometric Identities · 2

**ANSWER**

$\cos^2 x$

Trigonometric Identities · 1

**ANSWER**

$\sin x$

Trigonometric Identities · 4

**ANSWER**

$\frac{4}{3}$

Trigonometric Identities · 3

**ANSWER**

$1$

Trigonometric Identities · 6

**ANSWER**

$\sin^2 x$

Trigonometric Identities · 5

**ANSWER**

$\sin^2 x$

Trigonometric Identities · 8

**ANSWER**

$\frac{24}{25}$

Trigonometric Identities · 7

**ANSWER**

$1$

Trigonometric Identities · 9

Simplify: $\frac{1}{1 + \tan^2 x}$

Trigonometric Identities · 10

$\sin \theta = -\frac{5}{13}$ and θ is in quadrant IV. Find the exact value of tan θ.

Trigonometric Identities · 11

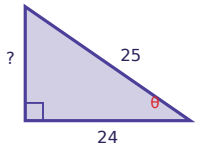
Simplify: cot x / csc x

Trigonometric Identities · 12

Simplify: $(\sec^2 x - 1) \cdot \cot x$

Trigonometric Identities · 13

$\cos \theta = \frac{24}{25}$ and θ is in quadrant I. Find the exact value of sin θ.




Trigonometric Identities · 14

Simplify: $\cos^2 x \cdot \sec x$

Trigonometric Identities · 15

Simplify: cos x / cot x

Trigonometric Identities · 16

Simplify: $(1 - \sin^2 x) / \cos x$

Trigonometric Identities · 10

**ANSWER**

$$\frac{5}{-12}$$

Trigonometric Identities · 9

**ANSWER**

$$\cos^2 x$$

Trigonometric Identities · 12

**ANSWER**

$$\tan x$$

Trigonometric Identities · 11

**ANSWER**

$$\cos x$$

Trigonometric Identities · 14

**ANSWER**

$$\cos x$$

Trigonometric Identities · 13

**ANSWER**

$$\frac{7}{25}$$

Trigonometric Identities · 16

**ANSWER**

$$\cos x$$

Trigonometric Identities · 15

**ANSWER**

$$\sin x$$

Trigonometric Identities · 17

$\cos\theta = -\frac{4}{5}$ and θ is in quadrant II.

Find the exact value of sin θ.

Trigonometric Identities · 18

Simplify: $(\sin x + \cos x)^2 - 2\sin x \cos x$

Trigonometric Identities · 19

$\sin\theta = -\frac{3}{5}$ and θ is in quadrant III.

Find the exact value of tan θ.

Trigonometric Identities · 20

Simplify: $\sin^2 x \cdot \csc x$

Trigonometric Identities · 21

$\cos\theta = -\frac{3}{5}$ and θ is in quadrant III.

Find the exact value of tan θ.

Trigonometric Identities · 22

Simplify: $(1 + \tan^2 x) \cdot \cos^2 x$

Trigonometric Identities · 23

$\cos\theta = -\frac{8}{17}$ and θ is in quadrant II.

Find the exact value of sin θ.

Trigonometric Identities · 24

Simplify: $\cot^2 x \cdot \sin^2 x$

Trigonometric Identities · 18

**ANSWER**

$$1$$

Trigonometric Identities · 17

**ANSWER**

$$\frac{3}{5}$$

Trigonometric Identities · 20

**ANSWER**

$$\sin x$$

Trigonometric Identities · 19

**ANSWER**

$$\frac{3}{4}$$

Trigonometric Identities · 22

**ANSWER**

$$1$$

Trigonometric Identities · 21

**ANSWER**

$$\frac{4}{3}$$

Trigonometric Identities · 24

**ANSWER**

$$\cos^2 x$$

Trigonometric Identities · 23

**ANSWER**

$$\frac{15}{17}$$