Trigonometric Identities · 1

Simplify: $\csc^2 x - 1$

Trigonometric Identities · 2

Simplify: $\cos^2 x - 1$

Trigonometric Identities · 3

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

Trigonometric Identities · 4

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

Find the exact value of $\cos \theta$.

Trigonometric Identities · 5

Simplify: $\csc^2 x - \cot^2 x$

Trigonometric Identities · 6

Simplify: $\cot x / \csc x$

Trigonometric Identities · 7

Simplify: $\sin x / \tan x$

Trigonometric Identities · 8

$\cos \theta = -\frac{12}{13}$ and θ is in quadrant III.

Find the exact value of $\sin \theta$.

Trigonometric Identities · 2

ANSWER

$-\sin^2 x$

Trigonometric Identities · 1

ANSWER

$\cot^2 x$

Trigonometric Identities · 4

ANSWER

$\frac{4}{-5}$

Trigonometric Identities · 3

ANSWER

$\cos x$

Trigonometric Identities · 6

ANSWER

$\cos x$

Trigonometric Identities · 5

ANSWER

1

Trigonometric Identities · 8

ANSWER

$\frac{5}{-13}$

Trigonometric Identities · 7

ANSWER

$\cos x$

Trigonometric Identities · 9

Simplify: $\sec^2 x - 1$

Trigonometric Identities · 10

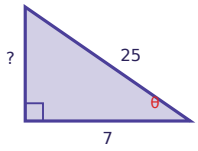
Simplify: $\frac{1}{1 + \tan^2 x}$

Trigonometric Identities · 11

Simplify: $\sec^2 x - \tan^2 x$

Trigonometric Identities · 12

$\cos \theta = \frac{7}{25}$ and θ is in quadrant I. Find the exact value of tan θ.



Trigonometric Identities · 13

Simplify: $\sin^2 x - 1$

Trigonometric Identities · 14

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

Trigonometric Identities · 15

$\sin \theta = -\frac{8}{17}$ and θ is in quadrant IV. Find the exact value of cos θ.

Trigonometric Identities · 16

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

Trigonometric Identities · 10

ANSWER

$\cos^2 x$

Trigonometric Identities · 9

ANSWER

$\tan^2 x$

Trigonometric Identities · 12

ANSWER

$\frac{24}{7}$

Trigonometric Identities · 11

ANSWER

1

Trigonometric Identities · 14

ANSWER

$\cos x$

Trigonometric Identities · 13

ANSWER

$-\cos^2 x$

Trigonometric Identities · 16

ANSWER

$\sin x$

Trigonometric Identities · 15

ANSWER

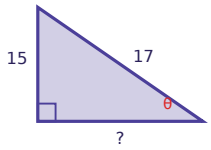
$\frac{15}{17}$

Trigonometric Identities · 17

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

Trigonometric Identities · 18

$\sin \theta = \frac{15}{17}$ and θ is in quadrant I. Find the exact value of $\cos \theta$.



Trigonometric Identities · 19

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

Trigonometric Identities · 20

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

Trigonometric Identities · 21

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

Trigonometric Identities · 22

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

Trigonometric Identities · 23

$\sin \theta = -\frac{4}{5}$ and θ is in quadrant IV. Find the exact value of $\cos \theta$.

Trigonometric Identities · 24

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

Trigonometric Identities · 18

ANSWER

$$\frac{8}{17}$$

Trigonometric Identities · 17

ANSWER

$$1$$

Trigonometric Identities · 20

ANSWER

$$\tan x$$

Trigonometric Identities · 19

ANSWER

$$1$$

Trigonometric Identities · 22

ANSWER

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

Trigonometric Identities · 21

ANSWER

$$\cos^2 x$$

Trigonometric Identities · 24

ANSWER

$$\sin^2 x$$

Trigonometric Identities · 23

ANSWER

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