Trigonometric Identities · 1

Simplify: $\sin^2 x + \cos^2 x$

Trigonometric Identities · 2

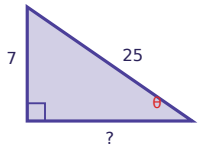
Simplify: $\cot x \cdot \sin x$

Trigonometric Identities · 3

Simplify: $\sec^2 x - 1$

Trigonometric Identities · 4

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



Trigonometric Identities · 5

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

Trigonometric Identities · 6

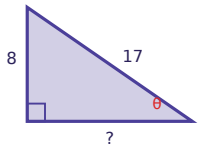
Simplify: $1 - \sin^2 x$

Trigonometric Identities · 7

Simplify: $1 - \cos^2 x$

Trigonometric Identities · 8

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



Trigonometric Identities · 2

ANSWER

$\cos x$

Trigonometric Identities · 1

ANSWER

1

Trigonometric Identities · 4

ANSWER

$\frac{24}{25}$

Trigonometric Identities · 3

ANSWER

$\tan^2 x$

Trigonometric Identities · 6

ANSWER

$\cos^2 x$

Trigonometric Identities · 5

ANSWER

$\sin x$

Trigonometric Identities · 8

ANSWER

$\frac{15}{17}$

Trigonometric Identities · 7

ANSWER

$\sin^2 x$

Trigonometric Identities · 9

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

Trigonometric Identities · 10

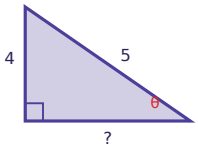
Simplify: $1 + \tan^2 x$

Trigonometric Identities · 11

Simplify: $\sin x / \tan x$

Trigonometric Identities · 12

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



Trigonometric Identities · 13

Simplify: $\cos^2 x - 1$

Trigonometric Identities · 14

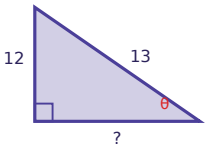
Simplify: $\sin^2 x - 1$

Trigonometric Identities · 15

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

Trigonometric Identities · 16

$\sin \theta = \frac{12}{13}$ and θ is in quadrant I. Find the exact value of $\tan \theta$.



Trigonometric Identities · 10

ANSWER

$\sec^2 x$

Trigonometric Identities · 9

ANSWER

1

Trigonometric Identities · 12

ANSWER

$\frac{4}{3}$

Trigonometric Identities · 11

ANSWER

$\cos x$

Trigonometric Identities · 14

ANSWER

$-\cos^2 x$

Trigonometric Identities · 13

ANSWER

$-\sin^2 x$

Trigonometric Identities · 16

ANSWER

$\frac{12}{5}$

Trigonometric Identities · 15

ANSWER

1

Trigonometric Identities · 17

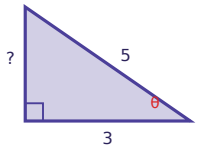
Simplify: $\tan x / \sec x$

Trigonometric Identities · 18

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

Trigonometric Identities · 19

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

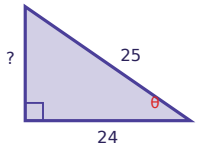


Trigonometric Identities · 20

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

Trigonometric Identities · 21

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

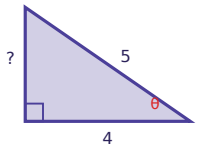


Trigonometric Identities · 22

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

Trigonometric Identities · 23

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



Trigonometric Identities · 24

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

Trigonometric Identities · 18

ANSWER

1

Trigonometric Identities · 17

ANSWER

$\sin x$

Trigonometric Identities · 20

ANSWER

$\cot x$

Trigonometric Identities · 19

ANSWER

$\frac{4}{3}$

Trigonometric Identities · 22

ANSWER

$\tan x$

Trigonometric Identities · 21

ANSWER

$\frac{7}{25}$

Trigonometric Identities · 24

ANSWER

1

Trigonometric Identities · 23

ANSWER

$\frac{3}{4}$