

Solutions – Trig Identities (A)

Simplify $\tan\theta \cdot \cot\theta$.

1

Simplify $\sin\theta \cdot \tan\theta$.

$\sin^2\theta / \cos\theta$

Simplify $1 / \cot\theta$.

$\tan\theta$

Simplify $\sin^2\theta + \cos^2\theta$.

1

Simplify $1 + \tan^2\theta$.

$\sec^2\theta$

Simplify $1 / \sec\theta$.

$\cos\theta$

Solutions – Trig Identities (B)

Simplify $1 + \tan^2\theta$.

$\sec^2\theta$

Simplify $\sin\theta / \cos\theta$.

$\tan\theta$

Simplify $\sec^2\theta - \tan^2\theta$.

1

Simplify $\tan\theta \cdot \cot\theta$.

1

Simplify $\cos\theta / \sin\theta$.

$\cot\theta$

Simplify $1 / \csc\theta$.

$\sin\theta$

Solutions – Trig Identities (C)

Simplify $1 / \cot\theta$.

$\tan\theta$

Simplify $\csc\theta \cdot \sin\theta$.

1

Simplify $\cos\theta / \sin\theta$.

$\cot\theta$

Simplify $1 + \tan^2\theta$.

$\sec^2\theta$

Simplify $\sec^2\theta - \tan^2\theta$.

1

Simplify $\sin^2\theta + \cos^2\theta$.

1

Solutions – Trig Identities (D)

Simplify $1 / \csc\theta$.

$\sin\theta$

Simplify $1 / \cot\theta$.

$\tan\theta$

Simplify $\cos\theta / \sin\theta$.

$\cot\theta$

Simplify $\sin^2\theta + \cos^2\theta$.

1

Simplify $\sec\theta \cdot \cos\theta$.

1

Simplify $\csc\theta \cdot \sin\theta$.

1

Solutions – Trig Identities (E)

Simplify $\sin^2\theta + \cos^2\theta$.

1

Simplify $\tan\theta \cdot \cot\theta$.

1

Simplify $\sin\theta / \cos\theta$.

$\tan\theta$

Simplify $1 + \tan^2\theta$.

$\sec^2\theta$

Simplify $1 / \sec\theta$.

$\cos\theta$

Simplify $\sec^2\theta - \tan^2\theta$.

1

Solutions – Trig Identities (F)

Simplify $\sec^2\theta - \tan^2\theta$.

1

Simplify $\sin\theta \cdot \tan\theta$.

$\sin^2\theta / \cos\theta$

Simplify $1 + \tan^2\theta$.

$\sec^2\theta$

Simplify $1 / \csc\theta$.

$\sin\theta$

Simplify $\csc\theta \cdot \sin\theta$.

1

Simplify $1 / \sec\theta$.

$\cos\theta$

Solutions – Trig Identities (G)

Simplify $\sec\theta \cdot \cos\theta$.

1

Simplify $\sec^2\theta - \tan^2\theta$.

1

Simplify $\csc\theta \cdot \sin\theta$.

1

Simplify $\sin\theta / \cos\theta$.

$\tan\theta$

Simplify $1 / \cot\theta$.

$\tan\theta$

Simplify $\tan\theta \cdot \cot\theta$.

1

Solutions – Trig Identities (H)

Simplify $\csc\theta \cdot \sin\theta$.

1

Simplify $1 / \csc\theta$.

$\sin\theta$

Simplify $\cos\theta / \sin\theta$.

$\cot\theta$

Simplify $\sec^2\theta - \tan^2\theta$.

1

Simplify $\sin^2\theta + \cos^2\theta$.

1

Simplify $1 / \sec\theta$.

$\cos\theta$

Solutions – Trig Identities (I)

Simplify $1 + \tan^2\theta$.

$\sec^2\theta$

Simplify $\cos\theta / \sin\theta$.

$\cot\theta$

Simplify $\csc\theta \cdot \sin\theta$.

1

Simplify $\sec\theta \cdot \cos\theta$.

1

Simplify $\sin\theta \cdot \tan\theta$.

$\sin^2\theta / \cos\theta$

Simplify $\sec^2\theta - \tan^2\theta$.

1

Solutions – Trig Identities (J)

Simplify $1 / \sec\theta$.

$\cos\theta$

Simplify $\sin^2\theta + \cos^2\theta$.

1

Simplify $1 + \tan^2\theta$.

$\sec^2\theta$

Simplify $\sec^2\theta - \tan^2\theta$.

1

Simplify $\sin\theta / \cos\theta$.

$\tan\theta$

Simplify $\sin\theta \cdot \tan\theta$.

$\sin^2\theta / \cos\theta$