

Simplifying Trigonometric Expressions #2

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Name: _____

1) $\frac{\cos^2 t - 1}{\sin^2 t - 1}$

2) $\cos t \csc t(\sec^2 t - 1)$

3) $\frac{\sec t \tan t}{\tan^2 t + 1}$

4) $\cot t(\tan t + \cot t)$

5) $\frac{\tan t}{\tan t + \cot t}$

Answers:

1) $\tan^2 t$

3) $\sin t$

5) $\sin^2 t$

2) $\tan t$

4) $\csc^2 t$

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1) $\frac{\tan^2 t + 1}{1 + \cot^2 t}$

2) $\frac{1 - \cos^2 t}{\sin^2 t}$

3) $\sec t \tan t \cos t$

4) $\tan^2 t(\csc^2 t - 1)$

5) $\frac{\tan^2 t}{1 - \sec^2 t}$

Answers:

1) $\tan^2 t$

3) $\tan t$

5) -1

2) 1

4) 1