

Name: _____
PreCalculus

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Ms. Wilson

Simplifying Trigonometric Expressions

Simplify each of the following expressions to a single trig function.

1.) $\tan x \cos x$

2.) $\cot x \tan x$

3.) $\cot u \sin u$

4.) $\frac{1+\tan^2 x}{\csc^2 x}$

5.) $\frac{1-\cos^2 \theta}{\sin \theta}$

6.) $\frac{\sin^2 u + \tan^2 u + \cos^2 u}{\sec u}$

7.) $\frac{\sec^2 u - \tan^2 u}{\cos^2 v + \sin^2 v}$

8.) $(\sec^2 x + \csc^2 x) - (\tan^2 x + \cot^2 x)$