

Alg 2B Hwk #25 Sec 14-1 Spring 2018

Simplify each trigonometric expression into a single trigonometric function or a constant. Do your work on a separate piece of paper. You must show work to receive credit.

1. $\cot\theta\csc\theta\sin^2\theta$

2. $\frac{\sec x \tan x}{\tan^2 x + 1}$

3. $\frac{\tan x}{\tan x + \cot x}$

4. $\frac{\cos\theta}{\sin\theta\cot\theta}$

5. $\cos\theta\cot\theta + \sin\theta$

6. $\sin x(1 + \cot^2 x)$

7. $\frac{1 + \cos x}{\cos x} - 1$

8. $\sec\theta\csc\theta - \cot\theta$

9. $\sec x - \tan x \sin x$