

G11A 4.2 Verifying Trigonometric Identities

Verify each identity.

5. $\cot^2 \theta \csc^2 \theta - \cot^2 \theta = \cot^4 \theta$

6. $\tan \theta \csc^2 \theta - \tan \theta = \cot \theta$

23. $\frac{1 + \csc \theta}{\sec \theta} = \cos \theta + \cot \theta$

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