

Trigonometry

Name: _____

The majority of the credit you receive will be based on the completeness and the clarity of your responses. **Show all of your work and justify your solutions as much as possible.**
This is a 15 minute quiz and has 2 questions, for a total of 10 points

(6 points) 1. Prove that $\tan^2(\theta) - \sin^2(\theta) = \frac{\sin^4(\theta)}{\cos^2(\theta)}$ is an identity.

(5 points) 2. Show that the equation $\cos(t)(\tan(t) + \cot(t)) = -\csc(t)$ is not an identity.