

TRIG PROOFS TO DO:

Directions: Here are some trigonometry proofs to do. Try to make one side look like the other side. Do not consult other books. Try to make your work **neat** and **readable**.

1. $\sin \theta + \cot \theta \cos \theta = \csc \theta$

2. $\frac{\sin \theta + \tan \theta}{1 + \cos \theta} = \tan \theta$

3. $\frac{1}{\tan \theta + \cot \theta} = \sin \theta \cos \theta$

4. $\frac{1 + \sin B}{\cos B} + \frac{\cos B}{1 + \sin B} = 2 \sec B$

5. $\frac{\tan A \sin A}{\tan A - \sin A} = \frac{\sin A}{1 - \cos A}$

6. $2 \csc \theta - \cot \theta \cos \theta = \sin \theta + \csc \theta$