

exposed to more techniques we can use to verify identities.

1. Verify the identity. $2 \csc^2 x - 2 \csc^2 x \cos^2 x - \sin^2 x - \cos^2 x = 1$ Hint: Use factor by grouping.

$$\begin{aligned} 2 \csc^2 x - 2 \csc^2 x \cos^2 x - \sin^2 x - \cos^2 x &= 2 \csc^2 x (1 - \cos^2 x) - 1 (\sin^2 x + \cos^2 x) \\ &= 2 \csc^2 x \cdot \sin^2 x - 1(1) = 2 \cdot \frac{1}{\cancel{\sin^2 x}} \cdot \cancel{\sin^2 x} - 1 \\ &= 2 - 1 \\ &= 1 \end{aligned}$$

2. Verify the identity. $\frac{1+\sin \theta}{\cos \theta} + \frac{\cos \theta}{1+\sin \theta} = 2 \sec \theta$ Hint: Find an LCD to combine the fractions.

$$\begin{aligned} \frac{1+\sin \theta}{1+\sin \theta} \cdot \frac{1+\sin \theta}{\cos \theta} + \frac{\cos \theta}{1+\sin \theta} \cdot \frac{\cos \theta}{\cos \theta} &= \frac{1+2\sin \theta + \sin^2 \theta + \cos^2 \theta}{(1+\sin \theta) \cos \theta} \\ &= \frac{1+2\sin \theta + 1}{(1+\sin \theta) \cos \theta} = \frac{2+2\sin \theta}{\cos \theta (1+\sin \theta)} = \frac{2(1+\sin \theta)}{\cos \theta (1+\sin \theta)} = \frac{2}{\cos \theta} \\ &= 2 \cdot \frac{1}{\cos \theta} = 2 \sec \theta \end{aligned}$$

Verifying Identities Precalculus Hs Mathematics Unit

Lesson 02

Julia Schneider



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