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Trigonometry Worksheet: Verify Identities (2)

Verify the identities

1.
$$\frac{1}{1 - \cos x} + \frac{1}{1 + \cos x} = 2 \csc^2 x$$

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

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