

Verify - Double & Half-Angle Identities

Verify the following.

1) $\frac{1 - \cos 2x}{2 \sin x} = \sin x$

2) $\sin 3x = 3 \sin x - 4 \sin^3 x$

3) $\tan \frac{x}{2} \csc x = \sec x$

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Verify - Double & Half-Angle Identities

Verify the following.

4) $2 \sin^2 x + \cos 2x = 1$

5) $\frac{\sin 2x}{1 - \cos 2x} =$

6) $\frac{2 \tan x}{\cot^2 x - 1} = \tan$

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