

Verify - Double & Half-Angle Identities

Verify the following.

1) $\cos 4x = 1 - 8 \sin^2 x \cos^2 x$

2) $\frac{2 \cos x}{\sin 2x} = \csc x$

3) $\tan 3x = \frac{3 \tan x - \tan^3 x}{1 - 3 \tan^2 x}$

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Verify - Double & Half-Angle Identities

Verify the following.

4) $\sin 2x \tan x = 2 \sin^2 x$

5) $\cos^2 \frac{x}{2} \sec x$

6) $(\cos x + \sin x)$

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