

Verify - Double & Half-Angle Identities

Verify the following.

1) $\cos 3x = 4 \cos^3 x - 3 \cos x$

2) $\frac{1 + \cos 2x}{2 \cot x} =$

3) $\frac{\sin 2x}{\sin^2 x} = 2 \cot x$

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Verify - Double & Half-Angle Identities

Verify the following.

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

5) $2 \tan x \sin^2 \frac{x}{2}$

6) $\cos^4 x - \sin^4 x$

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