

Verifying Trig Identities
(Double & Half Angles)

Write each expression in terms of a single trigonometric function.

1. $\cos^2 5 - \sin^2 5$ 2. $\frac{2 \tan\left(\frac{\pi}{6}\right)}{1 - \tan^2\left(\frac{\pi}{6}\right)}$

3. Verify: $\cos^4 x - \sin^4 x = \cos 2x$