Verifying Identities Double and Half Angles Notes

Write each expression in terms of a single trigonometric function.

1. $\cos^2 5 - \sin^2 5$

2. $\dfrac{2\tan\left(\dfrac{\pi}{6}\right)}{1 - \tan^2\left(\dfrac{\pi}{6}\right)}$

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