

Express each as a single trigonometric function.

1) $\cos^2 243^\circ - \sin^2 243^\circ$

2) $\frac{1 - \cos \frac{\pi}{9}}{\sin \frac{\pi}{9}}$

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

3θ

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5) $\frac{2 \tan \frac{5\pi}{6}}{1 + \tan^2 \frac{5\pi}{6}}$