

## Simplify

Express each as a single trigonometric function.

1)  $\sqrt{\frac{1 - \cos 78^\circ}{2}}$

2)  $\sqrt{\frac{1 + \cos 34^\circ}{2}}$

3)  $\frac{2 \tan 46^\circ}{1 - \tan^2 46^\circ}$

5)  $2 \cos^2 5\theta - 1$

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 $\frac{\pi}{5}$   
 $\frac{\pi}{5}$ 
 $\cos \frac{17\pi}{30}$