

## Evaluate

Evaluate each expression using trigonometric fundamental identities.

1)  $\frac{2 \csc 19^\circ \cos 19^\circ}{\cot 19^\circ} + \sin 30^\circ$

2)  $1 - (\sin^2 49^\circ + \sin^2 41^\circ)$

3)  $\frac{1}{\cos^2 26^\circ} - \tan^2 26^\circ$

$\frac{\cos^2 \frac{\pi}{5}}{\cot^3 \frac{\pi}{3}}$

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5)  $\cos^2 \frac{7\pi}{45} + \cos^2 \frac{2\pi}{45}$

$\frac{\sec 43^\circ \cot 25^\circ}{\csc 47^\circ \tan 65^\circ}$