

## Evaluate - Fundamental Identities

Evaluate each expression.

1)  $(\sin^2 62^\circ + \sin^2 28^\circ) \tan^2 62^\circ \cot^2 62^\circ$

2)  $\frac{7 \cos^3 53^\circ \sec 53^\circ}{(1 - \sin^2 53^\circ) \cot 60^\circ}$

3)  $\frac{1 - \cos^2 \frac{3\pi}{20}}{\sin^2 \frac{3\pi}{20}}$

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ot  $11^\circ \sec 11^\circ \sin 11^\circ$

5)  $\csc 45^\circ + \frac{\sec}{\csc}$

sin  $\frac{19\pi}{45} + \csc \frac{\pi}{6}$

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$\cot 11^\circ \sec 11^\circ \sin 11^\circ$

5)  $\csc 45^\circ + \frac{\sec}{\csc}$

$\sin \frac{19\pi}{45} + \csc \frac{\pi}{6}$

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$\sqrt{2} + 1$

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