

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

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

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

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