

Evaluate each expression using cofunction identities.

1) $4 - \frac{\sin 27^\circ}{\cos 63^\circ}$

2) $\sec \frac{\pi}{6} + \frac{9 \cos \frac{14\pi}{45}}{\sin \frac{17\pi}{90}}$

3) $\sec^2 \frac{3\pi}{10} \sin^2$

5) $\frac{\tan 71^\circ}{7 \cot 19^\circ} -$

7) $\frac{\cot 39^\circ \cot 77^\circ}{5 \tan 51^\circ \tan 13^\circ \tan 60^\circ}$

8) $\csc^3 7^\circ - \frac{\csc 14^\circ}{\sec 76^\circ} - \sec^3 83^\circ$

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