

Evaluate each expression using cofunction identities.

$$1) \frac{4 \cos 37^\circ \cos 65^\circ \sec 45^\circ}{\sin 25^\circ \sin 53^\circ}$$

$$2) \sin^2 \frac{\pi}{10} \sec^2 \frac{2\pi}{5} + \cot \frac{\pi}{3}$$

$$3) \frac{9}{11} - \frac{\sec 74^\circ}{\csc 16^\circ}$$

$$5) \frac{\tan 22^\circ}{\cot 68^\circ} + \frac{\csc 30^\circ}{\sec 60^\circ}$$

$$7) \cos^3 \frac{7\pi}{45} \csc^3 \frac{31\pi}{90}$$

$$8) 1 - \frac{\cos^2 78^\circ}{\sin^2 12^\circ}$$

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