

Evaluate each expression using cofunction identities.

1)  $\sin^3 \frac{2\pi}{15} - \frac{5}{2} - \sec^3 \frac{\pi}{3} - \cos^3 \frac{11\pi}{30}$

2)  $\frac{4 \sin 11^\circ}{\cos 79^\circ} + \frac{2 \tan 24^\circ}{\cot 66^\circ}$

3)  $9 + \tan^2 40^\circ$

5)  $\frac{\cot \frac{23\pi}{60}}{\tan \frac{7\pi}{60}}$

7)  $\frac{8 \tan 8^\circ}{\cot 82^\circ \cos 45^\circ}$

8)  $\sin^2 \frac{9\pi}{20} \cos^2 \frac{19\pi}{45} \sec^2 \frac{\pi}{20} \csc^2 \frac{7\pi}{90}$

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