

Evaluate

Evaluate each expression using trigonometric fundamental identities.

1) $3 \sec \frac{9\pi}{20} \cos \frac{9\pi}{20} - 6 \sin \frac{2\pi}{5} \csc \frac{2\pi}{5}$

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

3) $\frac{8 \cos 20^\circ}{\sin 70^\circ} + 6$

$\cos 68^\circ \csc 22^\circ \sin 15^\circ$

5) $13(\sin^2 6^\circ + \sin^2 24^\circ)$

$5^3 \frac{23\pi}{60}$

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