

Evaluate

Evaluate each expression using trigonometric fundamental identities.

1) $\sec^2 14^\circ - \cot^2 76^\circ - \csc^2 52^\circ + \tan^2 38^\circ$ 2) $\tan^2 \frac{\pi}{36} \cos^2 \frac{\pi}{36} + \cos^2 \frac{\pi}{36}$

3) $\frac{1 - \cos^2 \frac{3\pi}{20}}{\sin^2 \frac{3\pi}{20}} + \sec 47^\circ + \sin 90^\circ$

5) $9 + (\cos^2 16^\circ - \sin^2 16^\circ) + \sin \frac{19\pi}{45} + \csc \frac{\pi}{6}$

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5) $9 + (\cos^2 16^\circ -$

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

$\frac{31}{2}$

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