

Periodic Identities

Use periodic identities to find the exact value of each trigonometric expression.

1) $6 \sin 1170^\circ + \cos 720^\circ - \sec 420^\circ$ 2) $8 \cos \frac{9\pi}{4} \sec 2\pi$

3) $\frac{\tan 600^\circ \sec 81^\circ}{\csc 81^\circ}$

$\sin 450^\circ + \tan 225^\circ$

5) $4 - \cot \frac{13\pi}{2}$

7) $\csc \frac{19\pi}{3} + \frac{5}{2} - \tan \frac{4\pi}{3}$

8) $\frac{\sin 765^\circ}{\cos 1140^\circ \cot 240^\circ}$

PREVIEW

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1) $6 \sin 1170^\circ + \cos 720^\circ - \sec 420^\circ$ 2) $8 \cos \frac{9\pi}{4} \sec 2\pi$

5 **$4\sqrt{2}$**

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PREVIEW

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 $\frac{\sqrt{3}}{2}$

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 $\frac{15 - 2\sqrt{3}}{6}$ **$\sqrt{6}$**