

Periodic Identities

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

1) $\frac{\sec 360^\circ}{\sin 1470^\circ}$

2) $\sin \frac{7\pi}{3} + \cos \frac{7\pi}{3}$

3) $\frac{\sec \frac{2\pi}{3}}{\cos \frac{13\pi}{6} + \sin \frac{13\pi}{6}}$

$\cos 390^\circ$

5) $3 \sin 405^\circ$

$\tan \frac{13\pi}{3} + \sin \pi$

7) $\sec 720^\circ + 9 + \tan 570^\circ$

8) $4 \csc 780^\circ \cos 420^\circ$

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Periodic Identities

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

1) $\frac{\sec 360^\circ}{\sin 1470^\circ}$

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2) $\sin \frac{7\pi}{3} + \cos \frac{7\pi}{3}$

$$\frac{\sqrt{3} + 1}{2}$$

3) $\frac{\sec \frac{2\pi}{3}}{\cos \frac{13\pi}{6} + \sin \frac{13\pi}{6}}$

$$\frac{2\sqrt{6}}{5}$$

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 $\cos 390^\circ$

5) $3 \sin 405^\circ$

$$\frac{\sqrt{6} + 2}{2}$$
 $\tan \frac{13\pi}{3} + \sin \pi$
 $\sqrt{3}$

7) $\sec 720^\circ + 9 + \tan 570^\circ$

$$\frac{30 + \sqrt{3}}{3}$$

8) $4 \csc 780^\circ \cos 420^\circ$

$$\frac{4\sqrt{3}}{3}$$