

Evaluate

Use sum or difference identities to determine the exact value of each trigonometric expression.

1) $\sin 123^\circ \cos 57^\circ + \cos 123^\circ \sin 57^\circ$

2)
$$\frac{\tan \frac{29\pi}{60} - \tan \frac{3\pi}{20}}{1 + \tan \frac{29\pi}{60} \tan \frac{3\pi}{20}}$$

3) $\cos 199^\circ \cos 131^\circ$

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$\frac{\pi}{8} - \cos \frac{14\pi}{9} \sin \frac{\pi}{18}$

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5) $\frac{\tan 12^\circ + \tan 14^\circ}{1 - \tan 12^\circ \tan 14^\circ}$

$\frac{59\pi}{30} + \sin \frac{23\pi}{10} \sin \frac{59\pi}{30}$