

Evaluate

Evaluate each expression using sum-to-product and product-to-sum identities.

1) $\sin \frac{19\pi}{12} + \sin \frac{23\pi}{12}$

2) $\sin \frac{7\pi}{12} \sin \frac{5\pi}{12}$

3) $\cos \left(-\frac{\pi}{4}\right) \sin \pi$

$\cos 495^\circ$

5) $\cos 375^\circ + \cos$

$\cos (-15^\circ)$

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

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$\frac{\sqrt{3}-1}{4}$

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

$\frac{2+\sqrt{3}}{4}$