

Evaluate

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

1) $\cos 285^\circ \cos 15^\circ$

2) $\cos \frac{\pi}{12} \sin \frac{3\pi}{4}$

3) $\cos 255^\circ + \cos$

$+ \sin \frac{5\pi}{12}$

5) $\sin \frac{7\pi}{12} - \sin \frac{1}{1}$

$\cos 105^\circ$

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$\cos 105^\circ$

$\frac{1}{4}$

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

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

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

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