

Evaluate

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

1) $\cos \frac{3\pi}{4} \cos \frac{7\pi}{12}$

2) $\sin 165^\circ \cos 195^\circ$

3) $\sin 405^\circ - \sin$

$\cos \frac{\pi}{3}$

5) $\sin 285^\circ \sin 7$

$-\cos\left(-\frac{\pi}{12}\right)$

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Evaluate

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

1) $\cos \frac{3\pi}{4} \cos \frac{7\pi}{12}$

2) $\sin 165^\circ \cos 195^\circ$

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

3) $\sin 405^\circ - \sin$

$\cos \frac{\pi}{3}$

0

5) $\sin 285^\circ \sin 7$

$-\cos\left(-\frac{\pi}{12}\right)$

$\frac{-(2+\sqrt{3})}{4}$

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

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