

Product-to-Sum Identity

Write each product as a sum or difference.

1) $2 \sin(-49x) \sin 2x$

2) $\sin 76x \cos 61x$

3) $\cos 32^\circ \cos 18^\circ$

5) $\sin \frac{3\pi}{10} \cos \frac{7\pi}{60}$

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$$\frac{\sin \frac{5\pi}{12} + \sin \frac{11\pi}{60}}{2}$$

$$\frac{\cos 19^\circ + \cos 7^\circ}{2}$$