

## Product-to-Sum Identity

Write each product as a sum or difference.

1)  $\sin 5x \cos 3x$

2)  $2 \cos 21^\circ \cos 6^\circ$

3)  $\cos \frac{29\pi}{90} \sin \frac{2\pi}{9}$

5)  $\cos (-9^\circ) \cos (33x)$

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$$\frac{\sin 8x + \cos 15^\circ}{2}$$

$$\sin 33x - \cos 118x$$

$$\frac{\sin \frac{49\pi}{90} - \cos 118x}{2}$$

$$\frac{\sin 18x + \sin 16x}{2}$$

$$\frac{\cos 16^\circ + \cos 2^\circ}{2}$$

$$\sin 18x + \sin 16x$$

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