

Name : _____

Sum-to-Product Identity

Write each sum or difference as a product.

1) $\sin 81^\circ - \sin (-64^\circ)$

2) $3(\cos 6x - \cos 2x)$

3) $-6(\cos 16x + \cos 3^\circ)$

5) $\cos 14x - \cos \frac{\pi}{5}$

PREVIEW

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Sum-to-Product Identity

Write each sum or difference as a product.

1) $\sin 81^\circ - \sin(-64^\circ)$

2) $3(\cos 6x - \cos 2x)$

$2 \cos \frac{17^\circ}{2}$

$4x \sin 2x$

PREVIEW

3) $-6(\cos 16x + \cos 3^\circ)$

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$-12 \cos 1$

$7^\circ \cos 4^\circ$

5) $\cos 14x - \cos \frac{\pi}{5}$

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$n \frac{\pi}{5}$

$-2 \sin \frac{21x}{2} \sin \frac{7x}{2}$

$2 \cos \frac{11\pi}{45} \sin \frac{2\pi}{45}$