

Name : \_\_\_\_\_

## Solve - Cofunction Identities

Degrees: S2

Solve using cofunction identities.

1)  $\cos(3x + 4^\circ) = \sin(8x - 2^\circ)$

2)  $\sec 18^\circ = \csc 8x$

3)  $\sin \frac{5x}{4} = \csc$

# PREVIEW

$= \tan(5^\circ + 2x)$

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5)  $\tan 14x = \csc$

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$\csc(30^\circ + x)$

7)  $\cot 20^\circ = \tan 2x$

8)  $\cos 3^\circ = \sin\left(6^\circ + \frac{3x}{2}\right)$

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**Solve - Cofunction Identities**

Solve using cofunction identities.

1)  $\cos(3x + 4^\circ) = \sin(8x - 2^\circ)$

2)  $\sec 18^\circ = \csc 8x$

$x = 8^\circ$

$x = 9^\circ$

3)  $\sin \frac{5x}{4} = \csc$

**PREVIEW**

$= \tan(5^\circ + 2x)$

$x = 68^\circ$

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5)  $\tan 14x = \csc$

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$\csc(30^\circ + x)$

$x = 3^\circ$

7)  $\cot 20^\circ = \tan 2x$

8)  $\cos 3^\circ = \sin\left(6^\circ + \frac{3x}{2}\right)$

$x = 35^\circ$

$x = 54^\circ$