

Name : _____

Solve - Cofunction Identities

Degrees: S3

Solve using cofunction identities.

1) $\csc(9^\circ + 9x) = \sec 27^\circ$

2) $\tan 3x = \cot\left(\frac{22^\circ + x}{4}\right)$

3) $\sec 4x = \csc$

PREVIEW

$= \sin(3x - 19^\circ)$

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5) $\sin \frac{6x}{5} = \csc$

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$\csc x = \tan 6x$

7) $\csc(7x + 15^\circ) = \sec(59^\circ - 3x)$

8) $\sin 5x = \cos(2x + 41^\circ)$

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Solve - Cofunction Identities

Solve using cofunction identities.

1) $\csc(9^\circ + 9x) = \sec 27^\circ$

2) $\tan 3x = \cot\left(\frac{22^\circ + x}{4}\right)$

$x = 6^\circ$

$x = 26^\circ$

3) $\sec 4x = \csc(3x - 19^\circ)$

$= \sin(3x - 19^\circ)$

PREVIEW

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$x = 14^\circ$

5) $\sin \frac{6x}{5} = \csc 6x$

$\csc 6x = \tan 6x$

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$x = 71^\circ$

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7) $\csc(7x + 15^\circ) = \sec(59^\circ - 3x)$

8) $\sin 5x = \cos(2x + 41^\circ)$

$x = 4^\circ$

$x = 7^\circ$