

Solve - Cofunction Identities

Solve using cofunction identities.

1) $\cos \frac{5\pi}{14} = \sin \left(x - \frac{2\pi}{7} \right)$

2) $\sec x = \csc \frac{2\pi}{9}$

3) $\sin \left(\frac{\pi}{30} + 9x \right)$

PREVIEW

$\left. \right) = \tan \left(\frac{11x}{8} - \frac{\pi}{36} \right)$

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5) $\cos \left(\frac{\pi}{12} + 2x \right)$

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$\sec \frac{x}{3}$

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7) $\cot 4x = \tan \frac{\pi}{8}$

8) $\tan \left(13x + \frac{\pi}{10} \right) = \cot \frac{\pi}{15}$

Solve - Cofunction Identities

Solve using cofunction identities.

$$1) \quad \cos \frac{5\pi}{14} = \sin \left(x - \frac{2\pi}{7} \right)$$

$$x = \frac{3\pi}{7}$$

$$2) \quad \sec x = \csc \frac{2\pi}{9}$$

$$x = \frac{5\pi}{18}$$

$$3) \quad \sin \left(\frac{\pi}{30} + 9x \right)$$

PREVIEW

$$\left. \right) = \tan \left(\frac{11x}{8} - \frac{\pi}{36} \right)$$

$$x = \frac{2\pi}{45}$$

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$$5) \quad \cos \left(\frac{\pi}{12} + 2x \right)$$

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$$\sec \frac{x}{3}$$

$$x = \frac{5\pi}{36}$$

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$$\frac{\pi}{10}$$

$$7) \quad \cot 4x = \tan \frac{\pi}{8}$$

$$x = \frac{3\pi}{32}$$

$$8) \quad \tan \left(13x + \frac{\pi}{10} \right) = \cot \frac{\pi}{15}$$

$$x = \frac{\pi}{39}$$