

**Solve - Cofunction Identities**

Solve using cofunction identities.

1)  $\sin \frac{4\pi}{9} = \cos x$

2)  $\tan \frac{\pi}{12} = \cot \left( x - \frac{\pi}{36} \right)$

3)  $\sec \left( \frac{\pi}{3} + x \right) =$

**PREVIEW**

) =  $\sin \left( 9x - \frac{8\pi}{45} \right)$

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5)  $\cot \left( \frac{\pi}{2} - 3x \right)$

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) =  $\csc \left( 5x + \frac{\pi}{20} \right)$

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7)  $\csc 2x = \sec \frac{\pi}{15}$

8)  $\sin \left( \frac{13\pi}{60} + \frac{x}{2} \right) = \cos \frac{5\pi}{18}$

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Solve using cofunction identities.

$$1) \sin \frac{4\pi}{9} = \cos x$$

$$2) \tan \frac{\pi}{12} = \cot \left( x - \frac{\pi}{36} \right)$$

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

$$x = \frac{4\pi}{9}$$

$$3) \sec \left( \frac{\pi}{3} + x \right) =$$

# PREVIEW

$$) = \sin \left( 9x - \frac{8\pi}{45} \right)$$

$$x = \frac{\pi}{6}$$

$$5) \cot \left( \frac{\pi}{2} - 3x \right)$$

$$= \csc \left( 5x + \frac{\pi}{20} \right)$$

$$x = 0$$

$$7) \csc 2x = \sec \frac{\pi}{15}$$

$$8) \sin \left( \frac{13\pi}{60} + \frac{x}{2} \right) = \cos \frac{5\pi}{18}$$

$$x = \frac{13\pi}{60}$$

$$x = \frac{\pi}{90}$$

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