

Solve - Cofunction Identities

Solve using cofunction identities.

1) $\sec \frac{\pi}{16} = \csc \left(x + \frac{\pi}{4} \right)$

2) $\cos \left(\frac{7\pi}{20} - 13x \right) = \sin \left(\frac{\pi}{12} + 19x \right)$

3) $\cot \left(x + \frac{5\pi}{12} \right)$

5) $\sin \left(\frac{\pi}{48} + \frac{5x}{7} \right)$

7) $\tan \left(x - \frac{\pi}{31} \right) = \cot \frac{\pi}{2}$

8) $\csc \left(\frac{\pi}{15} + 4x \right) = \sec \left(3x + \frac{\pi}{12} \right)$

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ot $\frac{\pi}{5} + 2x$

Solve - Cofunction Identities

Solve using cofunction identities.

$$1) \sec \frac{\pi}{16} = \csc \left(x + \frac{\pi}{4} \right)$$

$$x = \frac{3\pi}{16}$$

$$2) \cos \left(\frac{7\pi}{20} - 13x \right) = \sin \left(\frac{\pi}{12} + 19x \right)$$

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

$$3) \cot \left(x + \frac{5\pi}{12} \right)$$

$$x = \frac{\pi}{24}$$

$$5) \sin \left(\frac{\pi}{48} + \frac{5x}{7} \right)$$

$$x = \frac{7\pi}{16}$$

$$7) \tan \left(x - \frac{\pi}{31} \right) = \cot \frac{\pi}{2}$$

$$x = \frac{\pi}{31}$$

$$8) \csc \left(\frac{\pi}{15} + 4x \right) = \sec \left(3x + \frac{\pi}{12} \right)$$

$$x = \frac{\pi}{20}$$

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