

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

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

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

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

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