

Answer on Question #58899 – Math – Trigonometry

Question

$$\cos\left(\frac{19\pi}{6}\right) = \underline{\hspace{2cm}}$$

$-\frac{1}{2}$

$\frac{1}{2}$

$-\frac{\sqrt{3}}{2}$

$\frac{\sqrt{3}}{2}$

Solution

$$\cos\left(\frac{19\pi}{6}\right) = \cos\left(\frac{24\pi-5\pi}{6}\right) = \cos\left(4\pi - \frac{5\pi}{6}\right) = \cos\left(-\frac{5\pi}{6}\right) = \cos\left(\frac{5\pi}{6}\right) = -\frac{\sqrt{3}}{2}.$$

Answer: $-\frac{\sqrt{3}}{2}$.

Question

$$\cot\left(\frac{25\pi}{2}\right) = \underline{\hspace{2cm}}$$

0

Undefined

-1

1

Solution

$$\cot\left(\frac{25\pi}{2}\right) = \cot\left(\frac{24\pi+\pi}{2}\right) = \cot\left(12\pi + \frac{\pi}{2}\right) = \cot\left(\frac{\pi}{2}\right) = 0.$$

Answer: 0.