

Who thinks this is a little triggy? key

AP Calculus AB: 1.3 Trigonometry

1)  $\sin\left(\frac{\pi}{2}\right) = 1$

2)  $\cos\left(\frac{\pi}{4}\right) = \frac{\sqrt{2}}{2}$

3)  $\sin\left(\frac{\pi}{6}\right) = \frac{1}{2}$

4)  $\csc\left(\frac{\pi}{2}\right) = 1$

5)  $\cos\left(\frac{7\pi}{6}\right) = -\frac{\sqrt{3}}{2}$

6)  $\tan\left(\frac{\pi}{4}\right) = 1$

7)  $\sin\left(\frac{3\pi}{4}\right) = \frac{\sqrt{2}}{2}$

8)  $\cos\left(\frac{3\pi}{2}\right) = 0$

9)  $\cos\left(\frac{5\pi}{4}\right) = -\frac{\sqrt{2}}{2}$

10)  $3 \sec\left(\frac{5\pi}{6}\right) = \frac{3}{1} \cdot \frac{-2}{\sqrt{3}} = \frac{-6}{\sqrt{3}} \left(\frac{\sqrt{3}}{\sqrt{3}}\right) = \frac{-6\sqrt{3}}{3}$   
 $\boxed{-2\sqrt{3}}$

11)  $2 \tan\left(\frac{\pi}{2}\right) = \text{undef.}$

12)  $\sin\left(\frac{2\pi}{3}\right) = \frac{\sqrt{3}}{2}$

13)  $\frac{2}{5} \sin\left(\frac{11\pi}{6}\right) = \frac{2}{5} \cdot \frac{-1}{2} = \boxed{\frac{-1}{5}}$

14)  $\frac{3}{\pi} \cos\left(\frac{2\pi}{3}\right) = \frac{-3}{2\pi}$

15)  $\cot\left(\frac{\pi}{6}\right) = \sqrt{3}$

16)  $\cot\left(\frac{3\pi}{2}\right) = 0$

17)  $\sin\left(\frac{\pi}{3}\right) \cos\left(\frac{\pi}{3}\right) = \frac{\sqrt{3}}{2} \cdot \frac{1}{2} = \boxed{\frac{\sqrt{3}}{4}}$

18)  $\sin\left(\frac{\pi}{3}\right) \sec\left(\frac{5\pi}{3}\right) = \sqrt{3}$

19)  $\sin\left(\frac{\pi}{2}\right) + \cos\left(\frac{3\pi}{2}\right) = \frac{\sqrt{4}}{2} + \frac{-\sqrt{0}}{2} = \boxed{1}$

20)  $\sec\left(\frac{5\pi}{6}\right) + \csc\left(\frac{\pi}{3}\right) = 0$