

Find each exact value. Do not use a calculator or a unit circle.

1. $\csc 90^\circ =$

8. $\cos \frac{5\pi}{6} =$

2. $\cos 60^\circ =$

9. $\sin \frac{7\pi}{6} =$

3. $\sin \frac{\pi}{3} =$

10. $\csc\left(\frac{-7\pi}{2}\right) =$

4. $\tan \frac{9\pi}{4} =$

11. $\tan 3\pi =$

5. $\sec \frac{7\pi}{3} =$

12. $\cot \frac{19\pi}{3} =$

6. $\cot 45^\circ =$

13. $\tan\left(-\frac{\pi}{6}\right)$

7. $\sec 270^\circ =$

14. $\csc(-180^\circ)$