

Practice for The Unit Circle Benchmark Quiz

Use the unit circle to evaluate the following trigonometric functions:

1. $\sin \frac{3\pi}{4}$

2. $\tan \frac{5\pi}{3}$

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

4. $\sec \frac{\pi}{3}$

5. $\tan \frac{3\pi}{2}$

6. $\sin 7\pi$

7. $\cot \frac{7\pi}{6}$

8. $\csc 210^\circ$

9. $\cos \frac{10\pi}{3}$

10. $\cot\left(-\frac{\pi}{2}\right)$

Answers:

1. $\frac{\sqrt{2}}{2}$

2. $-\sqrt{3}$

3. $-\frac{1}{2}$

4. 2

5. undefined

6. 0

7. $\sqrt{3}$

8. -2

9. $-\frac{1}{2}$

10. 0