

Part 2: Use the unit circle to find each value.

1. $\sin(45^\circ) = \frac{\sqrt{2}}{2}$
2. $\cos(30^\circ) = \frac{\sqrt{3}}{2}$
3. $\tan(60^\circ) = \sqrt{3}$
4. $\sec(120^\circ) = -2$
5. $\cot(225^\circ) = 1$
6. $\csc(330^\circ) = -2$
7. $\cos(270^\circ) = 0$
8. $\tan(90^\circ) = \text{undefined}$
9. $\sin(180^\circ) = 0$
10. $\csc(-45^\circ) = -\sqrt{2}$
11. $\sec(-150^\circ) = -\frac{2\sqrt{3}}{3}$
12. $\cot(-120^\circ) = \frac{\sqrt{3}}{3}$
13. $\tan(570^\circ) = \frac{\sqrt{3}}{3}$
14. $\cos(495^\circ) = -\frac{\sqrt{2}}{2}$
15. $\sin(660^\circ) = -\frac{\sqrt{3}}{2}$
16. $\sin\left(\frac{\pi}{6}\right) = \frac{1}{2}$
17. $\cos\left(\frac{\pi}{3}\right) = \frac{1}{2}$
18. $\tan\left(\frac{\pi}{4}\right) = 1$
19. $\sec\left(\frac{3\pi}{4}\right) = -\sqrt{2}$
20. $\cot\left(\frac{5\pi}{3}\right) = -\frac{\sqrt{3}}{3}$
21. $\csc\left(\frac{7\pi}{6}\right) = -2$
22. $\cos\left(\frac{\pi}{2}\right) = 0$
23. $\tan(\pi) = 0$
24. $\sin\left(\frac{3\pi}{2}\right) = -1$
25. $\csc\left(-\frac{2\pi}{3}\right) = -\frac{2\sqrt{3}}{3}$
26. $\sec\left(-\frac{5\pi}{4}\right) = -\sqrt{2}$
27. $\cot\left(-\frac{11\pi}{6}\right) = \sqrt{3}$
28. $\tan\left(\frac{11\pi}{4}\right) = -1$
29. $\cos\left(\frac{17\pi}{3}\right) = \frac{1}{2}$
30. $\sin\left(\frac{19\pi}{6}\right) = -\frac{1}{2}$