

8-2 The Unit Circle and Finding Exact Value Worksheet

Find the reference angle. Keep units consistent.

1. $\frac{2\pi}{3}$	2. $\frac{5\pi}{4}$	3. 120°
4. 300°	5. -330°	6. -240°
7. $\frac{7\pi}{4}$	8. -150°	9. $-\frac{\pi}{4}$
10. $-\frac{5\pi}{6}$		

Find the exact values.

11. $\cos 1140^\circ$	12. $\csc -120^\circ$	13. $\sin -240^\circ$
14. $\tan 0^\circ$	15. $\sec -210^\circ$	16. $\csc -240^\circ$
17. $\cos -90^\circ$	18. $\sec -60^\circ$	19. $\sec 1260^\circ$
20. $\sin -120^\circ$	21. $\sin 315^\circ$	22. $\cot 360^\circ$
23. $\sin -330^\circ$	24. $\csc 150^\circ$	25. $\cos 150^\circ$
26. $\sin 360^\circ$	27. $\csc -225^\circ$	28. $\cos -210^\circ$
29. $\sin -300^\circ$	30. $\tan 30^\circ$	31. $\sec \frac{7\pi}{6}$
32. $\tan \frac{-7\pi}{2}$	33. $\tan \frac{5\pi}{3}$	34. $\tan \frac{3\pi}{4}$
35. $\cot \frac{-7\pi}{4}$	36. $\cos 3\pi$	37. $\tan \frac{\pi}{2}$
38. $\cot -2\pi$	39. $\tan 4\pi$	40. $\sec \frac{-7\pi}{4}$
41. $\sin \frac{20\pi}{3}$	42. $\csc -\frac{17\pi}{4}$	43. $\tan \pi$
44. $\cos \frac{20\pi}{3}$	45. $\tan -\frac{\pi}{4}$	46. $\cos 0$
47. $\sin -\frac{23\pi}{4}$	48. $\csc \frac{\pi}{6}$	49. $\cos -\frac{\pi}{3}$
50. $\sin -\frac{5\pi}{3}$		