

Name: KEY

**Section 4 – Using your Calculator to solve Trigonometric Functions**

Solve the following trigonometric functions for the given degree. Round to 4 decimal places.

1. $\sin 15^\circ = 0.2588$	2. $\cos 143^\circ = 0.7986$	3. $\sin 28^\circ = 0.4695$
4. $\cos 270^\circ = 0$	5. $\sin 197^\circ = -0.2924$	6. $\tan 45^\circ = 1$
7. $\sin 300^\circ = -0.8660$	8. $\tan 90^\circ = \text{Undefined}$	9. $\cos 0^\circ = 1$
10. $\tan 0^\circ = 0$	11. $\cos 0^\circ = 1$	12. $\sin 210^\circ = -0.5$
13. $\cos 325^\circ = 0.8192$	14. $\sin 5^\circ = 0.0872$	15. $\tan 20^\circ = 0.3640$
16. $\sin 60^\circ = 0.8660$	17. $\tan 60^\circ = 1.7321$	18. $\cos 200^\circ = -0.9397$
19. $\cos 80^\circ = 0.1736$	20. $\tan 75^\circ = 3.7321$	21. $\sin 30^\circ = 0.5$
22. $\tan 270^\circ = \text{Undefined}$	23. $\sin 270^\circ = -1$	24. $\cos 90^\circ = 0$

Solve the trigonometric function to determine the degree. Round to 1 decimal place.

25. $\sin^{-1} 0.7431 = 48.0^\circ$	26. $\cos^{-1} 0.9659 = 15.0^\circ$	27. $\tan^{-1} 0.7002 = 35.0^\circ$
28. $\cos^{-1} 0.0872 = 85.0^\circ$	29. $\sin^{-1} 0.0000 = 0.0^\circ$	30. $\tan^{-1} 5.6713 = 80.0^\circ$
31. $\tan^{-1} 0.3640 = 20.0^\circ$	32. $\cos^{-1} 0.3420 = 70.0^\circ$	33. $\sin^{-1} 0.1736 = 10.0^\circ$
34. $\sin^{-1} 0.8660 = 60.0^\circ$	35. $\sin^{-1} 0.5000 = 30.0^\circ$	36. $\cos^{-1} 0.8660 = 30.0^\circ$
37. $\sin^{-1} 0.8192 = 55.0^\circ$	38. $\cos^{-1} 0.9397 = 20.0^\circ$	39. $\sin^{-1} 0.9848 = 80.0^\circ$
40. $\cos^{-1} 0.7071 = 45.0^\circ$	41. $\sin^{-1} 0.7071 = 45.0^\circ$	42. $\tan^{-1} 1.0000 = 45.0^\circ$
43. $\tan^{-1} 4.3561 = 77.1^\circ$	44. $\sin^{-1} 0.9659 = 75.0^\circ$	45. $\cos^{-1} 0.5736 = 55.0^\circ$
46. $\tan^{-1} 0.2679 = 15.0^\circ$	47. $\tan^{-1} 1.7321 = 60.0^\circ$	48. $\sin^{-1} 0.9563 = 73.0^\circ$

- The previous exercises were used to ensure you are comfortable with the use of your calculator