



Trig ratios of General Angles

Name: _____

Date: _____



Use a calculator to find each. Round your answers to the nearest ten-thousandth.

1) $\sin 150^\circ =$

2) $\cos 225^\circ =$

3) $\tan 330^\circ =$

4) $\cos \frac{7\pi}{4} =$

5) $\cot 322^\circ =$

6) $\sin \frac{5\pi}{3} =$

7) $\sin 280^\circ =$

8) $\cos 210^\circ =$

9) $\tan 89^\circ =$

10) $\tan \frac{9\pi}{4} =$

11) $\tan 89.9^\circ =$

12) $\tan 89.99^\circ =$

13) $\sin \frac{10\pi}{3} =$

14) $\tan \frac{8\pi}{3} =$

15) $\sin 155^\circ =$

16) $\sin\left(-\frac{\pi}{4}\right) =$

17) $\cos 5450^\circ =$

18) $\sin 1050^\circ =$



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Answers



Use a calculator to find each. Round your answers to the nearest ten-thousandth.

1) $\sin 150^\circ = \frac{1}{2}$

2) $\cos 225^\circ = -\frac{\sqrt{2}}{2} = -0.707$

3) $\tan 330^\circ = -\frac{\sqrt{3}}{3} = -0.57$

4) $\cos \frac{7\pi}{4} = \frac{\sqrt{2}}{2} = 0.707$

5) $\cot 322^\circ = -1.278$

6) $\sin \frac{5\pi}{3} = -\frac{\sqrt{3}}{2} = -0.866$

7) $\sin 280^\circ = -0.98$

8) $\cos 210^\circ = -\frac{\sqrt{3}}{2} = -0.866$

9) $\tan 89^\circ = 57.2899$

10) $\tan \frac{9\pi}{4} = +1$

11) $\tan 89.9^\circ = 572.957$

12) $\tan 89.99^\circ = 5729.57$

13) $\sin \frac{10\pi}{3} = -\frac{\sqrt{3}}{2} = -0.866$

14) $\tan \frac{8\pi}{3} = -\sqrt{3} = -1.73$

15) $\sin 155^\circ = 0.422$

16) $\sin\left(-\frac{\pi}{4}\right) = -\frac{\sqrt{2}}{2} = -0.707$

17) $\cos 5450^\circ = 0.642$

18) $\sin 1050^\circ = -\frac{1}{2}$



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