



Evaluating Each Trigonometric Function

Name: _____

Date: _____



Find the exact value of each trigonometric function.

1) $\sin 330^\circ =$

2) $\cos 330^\circ =$

3) $\tan 120^\circ =$

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

5) $\cot 225^\circ =$

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

7) $\sin 150^\circ =$

8) $\cos 480^\circ =$

9) $\tan 225^\circ =$

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

11) $\cos \frac{17\pi}{6} =$

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

13) $\cos 675^\circ =$

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

15) $\sin 225^\circ =$

16) $\sin\left(-\frac{5\pi}{4}\right) =$

17) $\cos\left(-\frac{13\pi}{6}\right) =$

18) $\sin 390^\circ =$



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Answers



Find the exact value of each trigonometric function.

1) $\sin 330^\circ = -\frac{1}{2}$

2) $\cos 330^\circ = \frac{\sqrt{3}}{2}$

3) $\tan 120^\circ = -\sqrt{3}$

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

5) $\cot 225^\circ = +1$

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

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

8) $\cos 480^\circ = -\frac{1}{2}$

9) $\tan 225^\circ = +1$

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

11) $\cos \frac{17\pi}{6} = -\frac{1}{2}$

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

13) $\cos 675^\circ = \frac{\sqrt{2}}{2}$

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

15) $\sin 225^\circ = -\frac{\sqrt{2}}{2}$

16) $\sin\left(-\frac{5\pi}{4}\right) = \frac{\sqrt{2}}{2}$

17) $\cos\left(-\frac{13\pi}{6}\right) = \frac{\sqrt{3}}{2}$

18) $\sin 390^\circ = \frac{1}{2}$



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