

Draw a unit circle or table by memory. Check to make sure your circle/table is accurate.

Find the exact value of each trigonometric function.

1) $\tan -\frac{3\pi}{2}$

3) $\tan -\frac{5\pi}{4}$

5) $\cot \frac{10\pi}{3}$

7) $\cos -\frac{10\pi}{3}$

9) $\csc \frac{5\pi}{3}$

11) $\sec 1020^\circ$

13) $\sin -\frac{11\pi}{4}$

15) $\sec -\frac{11\pi}{4}$

17) $\cos -330^\circ$

19) $\cos -135^\circ$

2) $\tan -660^\circ$

4) $\cos \frac{14\pi}{3}$

6) $\tan -900^\circ$

8) $\cot -\frac{\pi}{6}$

10) $\tan -\frac{17\pi}{3}$

12) $\cot 840^\circ$

14) $\sec \frac{17\pi}{6}$

16) $\sin -900^\circ$

18) $\tan -\frac{13\pi}{6}$

20) $\cot 405^\circ$

Draw a unit circle or table by memory. Check to make sure your circle/table is accurate.

Find the exact value of each trigonometric function.

$$1) \tan -\frac{3\pi}{2} \text{ Undefined}$$

$$3) \tan -\frac{5\pi}{4} -1$$

$$5) \cot \frac{10\pi}{3} \frac{\sqrt{3}}{3}$$

$$7) \cos -\frac{10\pi}{3} -\frac{1}{2}$$

$$9) \csc \frac{5\pi}{3} -\frac{2\sqrt{3}}{3}$$

$$11) \sec 1020^\circ 2$$

$$13) \sin -\frac{11\pi}{4} -\frac{\sqrt{2}}{2}$$

$$15) \sec -\frac{11\pi}{4} -\sqrt{2}$$

$$17) \cos -330^\circ \frac{\sqrt{3}}{2}$$

$$19) \cos -135^\circ -\frac{\sqrt{2}}{2}$$

$$2) \tan -660^\circ \sqrt{3}$$

$$4) \cos \frac{14\pi}{3} -\frac{1}{2}$$

$$6) \tan -900^\circ 0$$

$$8) \cot -\frac{\pi}{6} -\sqrt{3}$$

$$10) \tan -\frac{17\pi}{3} \sqrt{3}$$

$$12) \cot 840^\circ -\frac{\sqrt{3}}{3}$$

$$14) \sec \frac{17\pi}{6} -\frac{2\sqrt{3}}{3}$$

$$16) \sin -900^\circ 0$$

$$18) \tan -\frac{13\pi}{6} -\frac{\sqrt{3}}{3}$$

$$20) \cot 405^\circ 1$$