

Evaluating Trig Functions Using a Calculator

Date _____

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

1) $\sec \frac{46\pi}{9}$

2) $\tan \frac{38\pi}{9}$

3) $\cos -\frac{49\pi}{15}$

4) $\csc \frac{169\pi}{36}$

5) $\sin -\frac{751\pi}{180}$

6) $\cot \frac{221\pi}{60}$

7) $\csc 218^\circ$

8) $\tan 880^\circ$

9) $\cos -566^\circ$

10) $\sec -370^\circ$

11) $\cot 437^\circ$

12) $\sin 1070^\circ$

Find θ so that $0^\circ \leq \theta \leq 360^\circ$

13) $\cos \theta = 0.8746$

14) $\tan \theta = -2.4751$

$$15) \sin \theta = 0.9781$$

$$16) \sec \theta = -14.3356$$

$$17) \cot \theta = 0.6745$$

$$18) \csc \theta = -1.0403$$

Find θ so that $\theta \geq 0^\circ$ and $\theta \leq 360^\circ$. Round your answer to the nearest tenth of one degree.

$$19) \tan \theta = 1.1213 \text{ and } \sin \theta \text{ is positive.}$$

$$20) \sin \theta = 0.5151 \text{ and } \cos \theta \text{ is negative.}$$

$$21) \cot \theta = 0.6878 \text{ and } \theta \text{ is in Q3.}$$

$$22) \csc \theta = 2.5151 \text{ and } \theta \text{ is in Q1.}$$

$$23) \sin \theta = -0.5267; \theta \geq 270^\circ \text{ and } \theta \leq 360^\circ.$$