

NAME: _____

In questions 1 through 3, answer A, B, C or D.

- A. If column A is larger
- B. If column B is larger
- C. If the columns are equal.
- D. If more information is needed.

1.

Column A

$$\sec 72^\circ$$

Column B

$$\frac{1}{\cos(2\pi/5)}$$

2.

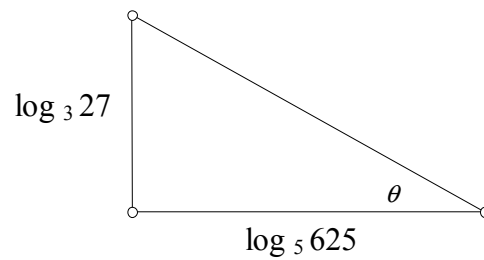
Column A

$$\csc \theta$$

Column B

$$\csc(-\theta)$$

3.



Column A

$$\cos \theta$$

Column B

$$\tan \theta$$

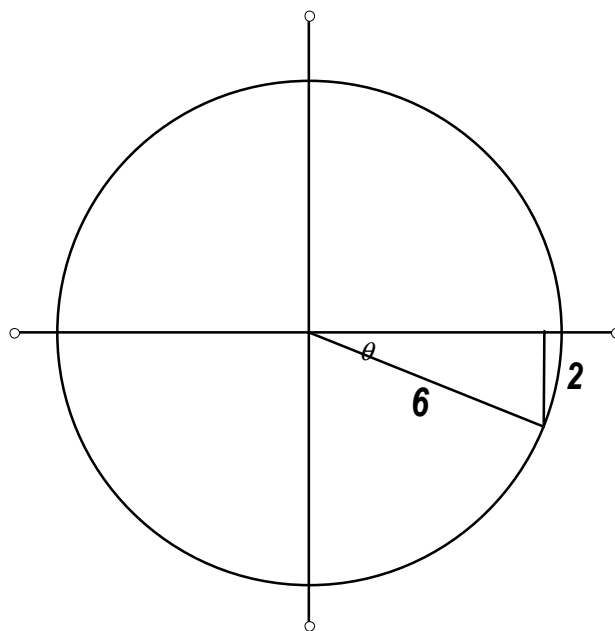
True or False? (Circle one.)

4. $\tan(\pi+t) = \tan(\pi) + \tan(t)$ for all values of t **T F**

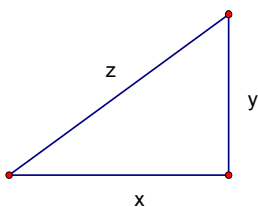
5. $\tan^2(\theta) - \cot^2(\theta) = \sec^2(\theta) + \csc^2(\theta)$ for all values of θ **T F**

6. Angular speed = Linear speed on the unit circle **T F**

7. Find the six trigonometric functions for θ below.



8. in the figure below, if $\sin \theta = .29$ what is the value of $\frac{y}{x}$



9. If $\sin \theta = \frac{\sqrt{3}}{2}$ then $\frac{\cos \theta}{\csc \theta} =$

10. $\pi^{\cos(-\theta)} \pi^{-\cos(\theta)} =$

11. $\sin\left(-\frac{\pi}{4}\right)$

12. $\cos\left(\frac{7\pi}{3}\right)$

13. $\sec\left(-\frac{7\pi}{6}\right)$