

Chapter 7 THINK & DISCUSS

Determine whether each statement is **True or False** using any methods you need to. Discuss all concepts involved. Support your answers. Try to reach consensus at your table.

1. The measure of an arc length in a particular problem would differ depending on whether your angle is given in radians vs. degrees.
2. $-\frac{\pi}{4}$ is the same angle as $\frac{7\pi}{4}$.
3. The secant function has a range of all real numbers.
4. $\sin(\sin^{-1}x)$ will always come out to be the same as x .
5. $\sin^{-1}(\sin x)$ will always come out to be the same as x .
6. The sine and cosine functions both decrease as θ increases from $\frac{\pi}{2}$ to π .