

## Quiz 1

Due: 3 September 2024

Answer the questions in the spaces provided. **Show all of your work and circle the answer you would like to have graded for each question.**

Name: \_\_\_\_\_

1. **Justify** whether the following statement is True or False:  $\frac{23\pi}{6}$  radians  $>$   $400^\circ$ .
  
2. Determine the angle  $\theta$  between  $0$  and  $2\pi$  that is coterminal to  $70801\pi$ .
  
3. The London Eye is a huge Ferris wheel and the most popular paid tourist attraction in the United Kingdom. Riders board from a platform that is 2 meters above the ground, and at the highest point on the ride they are 137 meters above the ground. It completes one rotation every 30 minutes.  
What is the **linear speed** of the London Eye in meters per hour?

