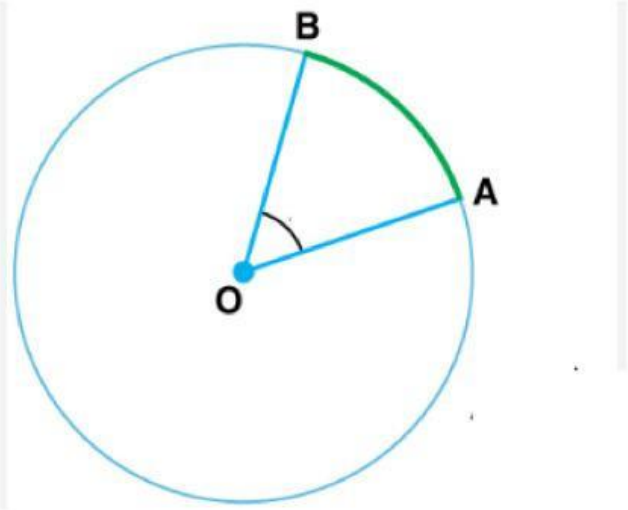
LO: To define angular displacement.

1. **Look at the diagram and label the circle by dragging the variables.**

Arc length (x) angular displacement(θ) radius (r)



2. **Angular displacement of Alain city during one-fourth of a day in radian is**

a. $\frac{\pi}{2}$ $b.\ \pi$ $c.\frac{3\pi}{2}$ $d.\ 2\pi$

3. **In 6 hours, how far will Alain travel due to the rotation of the Earth? The radius of the Earth is 6400 km.**
   a. **0 km**
   b. **1000 km**
   c. **10053 km**
   d. **3200 km**

LIVEWORKSHEETS