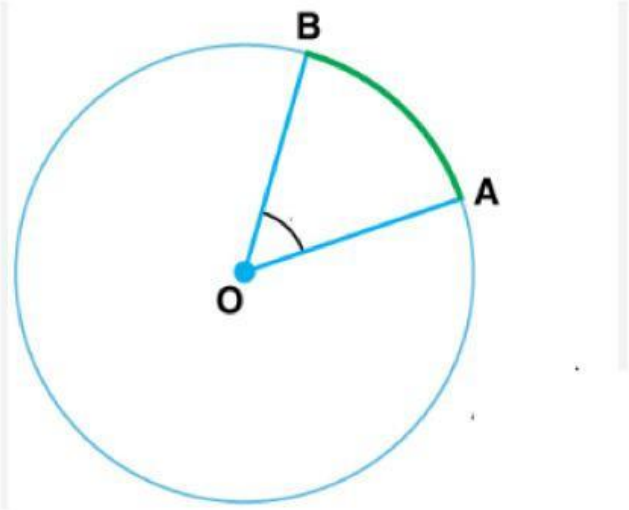
LO: To define angular displacement.

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

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