

### Question

- **Displacement is a vector quantity**
- **Displacement is a vector & it has direction as well**
- **Displacement is represented by a boldface letter**
- **Displacement after a round trip is zero (displacement is zero)**

### ANSWER

**Ques:** An object is moving in a circular path with a constant speed. How long will it take to complete one revolution if the radius of the circle is 10 m and the angular velocity is 10 rad/s?

**Ans:** Given: **Radius = 10 m**, **Angular velocity = 10 rad/s**. **Time taken to complete one revolution = ?**

### Explanation:

- **The displacement is a vector that is equal to the magnitude of the displacement vector.**
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**Ques:** A car is moving in a circular path with a constant speed. How long will it take to complete one revolution if the radius of the circle is 10 m and the angular velocity is 10 rad/s?

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**Ques:** A car is moving in a circular path with a constant speed. How long will it take to complete one revolution if the radius of the circle is 10 m and the angular velocity is 10 rad/s?