

### Answer on Question #41435 – Physics - Mechanics | Kinematics | Dynamics

The tendency of an object rotating about an axis to resist any of its rotational motion is referred to as -----

angular momentum

gyration

moment of inertia

torque

#### **Solution:**

Inertia refers to the tendency of an object to remain at rest or to resist any change in its state of motion unless acted on by an outside force. All objects, whether stationary or in motion, have inertia. Rotational inertia is the property of an object that resists any change in rotary motion, which is motion about the axis of an object. Thus, correct answer is **moment of inertia**

**Answer:** moment of inertia.

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