

# Physics 1114 - General Physics I

## Quiz #21 - 2012.10.15

### Solutions

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1. What does a moment of inertia describe?

A moment of inertia describes how a body's mass is distributed in relation to an axis of rotation.

2. What is the difference between translational and rotational kinetic energy?

Translational kinetic energy is the portion of kinetic energy associated with motion of the center of mass, whereas rotational kinetic energy is the portion of kinetic energy associated with rotation of the system about an axis through the center of mass.