Mechanics MCQ Unit 09: Angular Momentum

Author: Saylor Foundation

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1. Unit 09: Angular Momentum

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4. Chapter: Unit 09: Angular Momentum

1. Unit 09: Angular Momentum Questions

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4.1.1. What is the correct expression for rotational kinetic energy?

Author: Saylor Foundation

What is the correct expression for rotational kinetic energy?

Please choose only one answer:

- 1/2mv^2
- 1/2Iv^2
- 1/2I^2
- 1/2m^2

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4.1.2. What is the correct unit for the moment of inertia of an object?

Author: Saylor Foundation

What is the correct unit for the moment of inertia of an object?

Please choose only one answer:

- kilogram
- kilogram per meter
- kilogram meter
- kilogram meter squared.

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4.1.3. When an ice skater goes into a spin with arms extended and then pul...

Author: Saylor Foundation

When an ice skater goes into a spin with arms extended and then pulls her arms into her body, she spins faster. This is an example of which physics principle?

Please choose only one answer:

- Conservation of energy
- The work-energy theorem
- Conservation of mechanical energy
- Conservation of angular momentum

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4.1.4. Which of the following is NOT a match between linear and angular ro...

Author: Saylor Foundation

Which of the following is NOT a match between linear and angular rotation physical quantities?

Please choose only one answer:

- a and
- m and I
- d and
- f and

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4.1.5. Which one of the following equations might be used in solving rotat...

Author: Saylor Foundation

Which one of the following equations might be used in solving rotational dynamics problems?

Please choose only one answer:

- F = ma
- KE = 1/2mv^2
- = I
- = o + t

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4.1.6. If the angular acceleration of an object starting from rest is 10 r...

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If the angular acceleration of an object starting from rest is 10 radians/second squared, how many revolutions will it complete in 5 seconds?

Please choose only one answer:

- 14.3 revolutions
- 19.9 revolutions
- 25.6 revolutions
- 125 revolutions

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