

# Unit 05: Circular Motion and Gravity

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# Table of Contents

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## 1. Unit 05: Circular Motion and Gravity

## 4. Chapter: Unit 05: Circular Motion and Gravity

### 1. Unit 05: Circular Motion and Gravity Questions

#### 4.1.1. In Newton's law of gravity, which of the following statements is co...

Author: Saylor Foundation

In Newton's law of gravity, which of the following statements is correct?

Please choose only one answer:

- The force of gravity is proportional to the sum of the masses involved.
- The force of gravity is inversely proportional to the distance between the objects.
- The force of gravity is proportional to the square of the distance between the objects.
- The force of gravity is inversely proportional to square of the distance between the objects.

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#### 4.1.2. What does it mean when astronauts are described as weightless?

Author: Saylor Foundation

What does it mean when astronauts are described as weightless?

Please choose only one answer:

- There is no force of gravity acting on them.
- The centripetal force of gravity is balanced by the centrifugal force due to their motion.
- They are free falling.
- They are in orbit above Earth's atmosphere; therefore, there are no drag forces acting on the space craft.

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### 4.1.3. Which of the following statements is false regarding satellite prob...

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Which of the following statements is false regarding satellite problems?

Please choose only one answer:

- The solution depends on the mass of the satellite.
- There is a net force on the satellite.
- Satellites are free-falling objects.
- Their period of revolution is constant.

Check the answer of this question online at QuizOver.com:

Question: [Which of the following statements is false Saylor Foundat Introduction](#)

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#### 4.1.4. Which of the following statements regarding an object in uniform ci...

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Which of the following statements regarding an object in uniform circular motion is true?

Please choose only one answer:

- The object is not accelerating, because the speed of the object is constant.
- The object is accelerating, because the speed of the object is not constant.
- The object is not accelerating, because there is no net force on the object.
- The object is accelerating, because there is a net force on the object.

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#### 4.1.5. Which of the following statements is true regarding linear and rota...

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Which of the following statements is true regarding linear and rotational motion?

Please choose only one answer:

- Linear motion is always one-dimensional, whereas rotational motion is always two-dimensional.
- For every physical quantity associated with linear motion, there is a corresponding physical quantity associated with rotational motion.
- There is no correspondence between the physical quantities for linear and rotational motion.
- There is only correspondence between the physical quantities for kinematic but not for dynamic physical quantities for linear and rotational motion.

Check the answer of this question online at QuizOver.com:

Question: [Which of the following statements is true Saylor Foundat Introduction](#)

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