

Physics Semester 2 Review – Final Exam

Circular Motion

- **Angular speed** describes how fast something rotates. Degrees per minute and rotations per minute (rpm) are two common units of angular speed.
- **Linear speed** describes how fast a revolving object travels. Linear speed is often given in meters per second.

EXAMPLES ▶

1. A merry-go-round makes 18 rotations in 3 minutes. What is its angular speed in rpm?

$$\text{Angular speed} = \frac{18 \text{ rotations}}{3 \text{ minutes}} = 6 \text{ rpm}$$

2. A coin rolls across the floor at an angular speed of 4 rotations per second. What is its speed in degrees per second? Hint: One full rotation equals 360 degrees.

$$\text{Angular speed} = \frac{4 \times 360^\circ}{1 \text{ second}} = 1440^\circ/\text{second}$$

3. A child sits two meters from the center of a merry-go-round. How far does she travel during one revolution?

$$\text{Circumference} = 2\pi(2 \text{ meters}) = 12.6 \text{ meters}$$

4. If the merry-go-round makes one revolution in 10 seconds, what is the child's linear speed?

$$\text{Linear speed} = \frac{2\pi(2 \text{ meters})}{10 \text{ seconds}} = 1.3 \text{ m/sec}$$

1. A compact disc is spinning with an angular speed of 3.3 rotations per second.
- What is its angular speed in degrees per second?
 - What is its angular speed in rotations per minute (rpm)?
2. A compact disc has a radius of 6 centimeters.
- What is its circumference in meters?
 - If the cd rotates 4 times per second, what is the linear speed of a point on the outer edge of the cd? Give your answer in meters per second.
 - What is the linear speed of a point 3 centimeters from the center of the cd? (Assume the angular speed has not changed).

Universal Gravitation

The law of universal gravitation allows you to calculate the gravitational force between two objects from their masses and the distance between them. The law includes a value called the gravitational constant, or "G." This value is the same everywhere in the universe. Calculating the force between small objects like grapefruits or huge objects like planets, moons, and stars is possible using this law.

The force between two masses m_1 and m_2 that are separated by a distance r is given by:

Law of universal gravitation

Force (N) $F = G \frac{m_1 m_2}{r^2}$

Gravitational Constant $(6.67 \times 10^{-11} \text{ N}\cdot\text{m}^2/\text{kg}^2)$

Mass 1, Mass 2 (kg)

Distance between masses (m)



So, when the masses m_1 and m_2 are given in kilograms and the distance r is given in meters, the force has the unit of newtons. Remember that the distance r corresponds to the distance between the center of gravity of the two objects.

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Boston University



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