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Chapter 7: Circular Motion & Rotation 163 Objectives 1. Explain the acceleration of an object moving in a circle at constant speed. 2. Define centripetal force and recognize that it is not a special kind of force, but that it is provided by forces such as tension,

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172 Chapter 7 Circular Motion times acceleration, so the body must be accelerating. An example of this is the case of the Moon (M in diagram opposite) orbiting the Earth (E).

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Chapter 7 7.2 7. The road is horizontal (no banking) $R = mv^2 = N$ and $N = mg$ So $R = mv^2 = mg$ $v = 5\text{m/sec}$, $R = 10\text{m}$ $10 \cdot 25 = g = 100 \cdot 25 = 0.25$ 8. Angle of banking = 30° Radius = $r = 50\text{m}$ $\tan = rg/v^2$ $\tan 30^\circ = rg/v^2$ $3 = rg/v^2$ $v^2 = 3rg = 3 \cdot 50 \cdot 10$ $v = 3 \cdot 500 = 17\text{m/sec}$. 9. Electron revolves around the proton in a circle having proton at the centre.

SOLUTIONS TO CONCEPTS circular motion;; CHAPTER 7

Uniform circular motion is motion along a circular path in which there is no change in speed, only a change in direction.

Chapter 10. Uniform Circular Motion

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Chapter 7 Section 3 Motion in Space Objectives " Describe Kepler's laws of planetary motion. " Relate Newton's mathematical analysis of gravitational force to the elliptical planetary orbits proposed by Kepler. " Solve problems involving orbital speed and period.

Chapter 7 Section 1 Circular Motion Preview

Chapter 7: Circular Motion _____ " Spin about an axis located within the body Example: ... " An object moving in circular motion is inherently accelerating (centripetal acceleration) because it is constantly changing direction. It must therefore have a net force continually acting on it.

Chapter 7: Circular Motion - Planet Holloway

Chapter 7: Circular Motion & Rotation 163 Objectives 1. Explain the acceleration of an object moving in a circle at constant speed. 2. Define centripetal force and recognize that it is not a special kind of force, but that it is provided by forces such as tension, gravity, and friction. 3.

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6-1 Chapter 6 Circular Motion And the seasons they go round and round And the painted ponies go up and down We're captive on the carousel of time

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Uniform Circular Motion and Centripetal Acceleration Fig. 7.8 p.218 The speed of an object in uniform circular motion is constant, but the object's velocity changes in the direction of motion. Therefore, there is an acceleration. uniform circular motion An object moves at a constant speed in a circular path.

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