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CBSE IX Physics Motion An object moves on a circular path and its centre is taken as the reference point. As compared to the reference point what can we say about- A) The position of the moving object. B) The

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director the moving object. Give reasons too.

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Answer outline and marking scheme for  
question: a)  $T = 2\pi r / 1.7 \times 10^4 =$   
 $155230s = 43.1 \text{ hours}$  (2 Marks) b) i) -GMm

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$\frac{mv^2}{r} = \frac{GMm}{r^2}$ . So:  $\frac{GM}{r^2} = \frac{v^2}{r}$ .

Therefore  $M = \frac{v^2 r}{G}$ . ii)  $M = \frac{(1.7 \times 10^4)^2 \times 4.2 \times 10^8}{6.67 \times 10^{-11}} = 1.82 \times 10^{27} \text{ kg}$

(4 Marks) c)  $V_g = -\frac{GM}{r} = -\frac{6.67 \times 10^{-11} \times 1.9 \times 10^{27}}{7.1 \times 10^7} = -1.79 \times 10^9 \text{ K kg}^{-1}$   
(2 Marks)

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Answers? I created a physics analysis for these two problems, in PDF format.

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An 8.0 g cork is swung in a horizontal circle with a radius of 35 cm. It makes 30

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Answers revolutions in 12 seconds. What is the tension in the string? (Assume the string is nearly horizontal)  $T = \text{time}/\text{revolutions} = 0.4 \text{ s}$

Period is the time per revolution  $F = ma$

Write down  $N2L$   $F$  tension =  $mv$

## Circular Motion Problems ANSWERS

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Answers. Click – answers for circular motion question. Circular Motion When an object moves in a circle at a constant speed its velocity (which is a vector) is constantly changing. Its velocity is changing not because the magnitude of the velocity is changing but because its direction is.

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Circular Motion – centripetal force, centripetal ...

Practice Problems: Uniform Circular Motion Solutions. 1. (moderate) A racecar, moving at a constant tangential speed of 60 m/s, takes one lap around a circular track in 50 seconds. Determine the magnitude of the acceleration of the car.  $a = v^2 / r T =$

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Answers

$$2 \quad r/v \dots r = Tv/2 \quad \text{combine...} a = v^2 / (Tv/2) = v / (T/2) \quad a = (60) / (50/6.28) = 7.5 \text{ m/s}^2$$

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Define circular motion. Ans1. It is a movement of an object or body, along a circular path. Q2. i) Which of the following remains constant in a uniform circular motion, speed or velocity or both? ii) Name the force required for uniform circular motion. State its direction. Ans2.

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Class 11 Physics Multiple Choice Questions (MCQs) With Answer

An object of mass 450 g moves in a circular path of radius 1.5 m. It completes 2.5 revolutions per second. Calculate : a) the angular velocity: b) the linear speed of the body : c) the magnitude of the centripetal



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force needed to maintain this motion : d)  
the work done by this force during 10  
revolutions. 2.

The Open Door Web Site : IB Physics :  
QUESTIONS: CIRCULAR ...

Question 1 :- . When a body is moving in  
circular motion in a circular orbit at

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constant speed, it is in. (a) equilibrium (b) not in equilibrium. (c) unstable equilibrium (d) none of the above. Question 2 :- . A body executes uniform circular motion. (a) its velocity is constant (b) its acceleration is constant.

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If we notice that the loop is a case of circular motion we can figure out the minimum velocity required to make the loop by using the formula for radial acceleration: The radius is half the diameter of 30 m.

Circular Motion Problems

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Uniform Circular Motion Quiz Answers. Knowing what you know about uniform circular motion, and physics, when a NASCAR races around a circular track at 160 mph what keeps it from flying off the

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sides of the track? Gravitational Force.

Centripetal Force. Frictional Force. (It is the force that keeps things from sliding around)

Electromagnetic Force.

Imagine the Universe!

Question F1 Show, from first principles, that an object undergoing uniform circular

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motion must be experiencing an acceleration which is directed towards the centre of the circle and has a magnitude  $v^2/r$  where  $v$  is the speed of the object and  $r$  is the radius of the circle.

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