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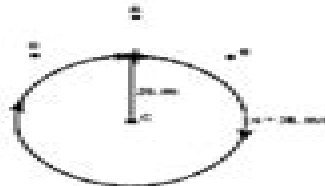
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Physics

Test Review: Newton's Law of Universal Gravitation and Circular Motion

Base your questions to number 1-3 on the diagram and information below

The diagram shows a 2.0-kilogram model airplane attached to a wire. The airplane is flying clockwise in a horizontal circle of radius 20. meters at 30. meters per second.

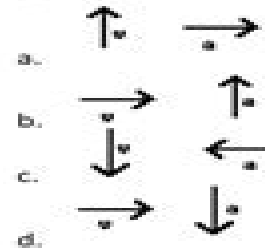


- The centripetal force acting on the airplane at the position shown is directed toward point
 - A
 - B
 - C
 - D
- What is the magnitude of the centripetal acceleration of the airplane?
 - 0 m/s^2
 - 1.5 m/s^2
 - 45 m/s^2
 90. m/s^2
- If the wire breaks when the airplane is at the position shown, the airplane will move toward point
 - A
 - B
 - C
 - D
- A motorcycle travels around a flat circular track. If the speed of the motorcycle is increased, the force required to keep it in the same circular path
 - Decreases
 - Increases
 - Remains the same

- The diagram below shows a ball undergoing uniform circular motion as it travels clockwise on a string.



At the moment shown in the diagram, what are the correct directions of both the velocity and centripetal acceleration of the ball?



- A 3.0-kilogram mass is traveling in a circle of 0.20-meter radius with a speed of 2.0 meters per second. What is the centripetal acceleration?
 10. m/s^2
 20. m/s^2
 60. m/s^2
 - 6.0 m/s^2
- A car going around a curve is acted upon by a centripetal force, F . If the speed of the car were twice as great, the centripetal force necessary to keep it moving in the same path would be
 - F
 - $2F$
 - $F/2$
 - $4F$

Base your answers to questions 8-11 on the diagram and information below.

The diagram shows an object with a mass of 1.0 kg attached to a string 0.50 meter long. The object is moving at a constant speed of 5.0 meters per second in a horizontal circular path with center at point O.



- What is the magnitude of the centripetal force acting on the object?
 - 2.5 N
 10. N
 - 25 N
 50. N

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C Cleary



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