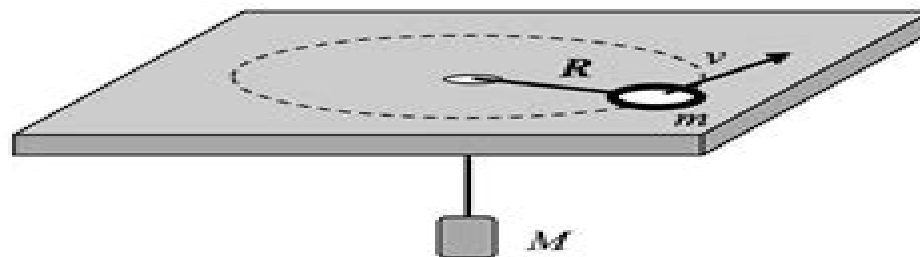


Question:

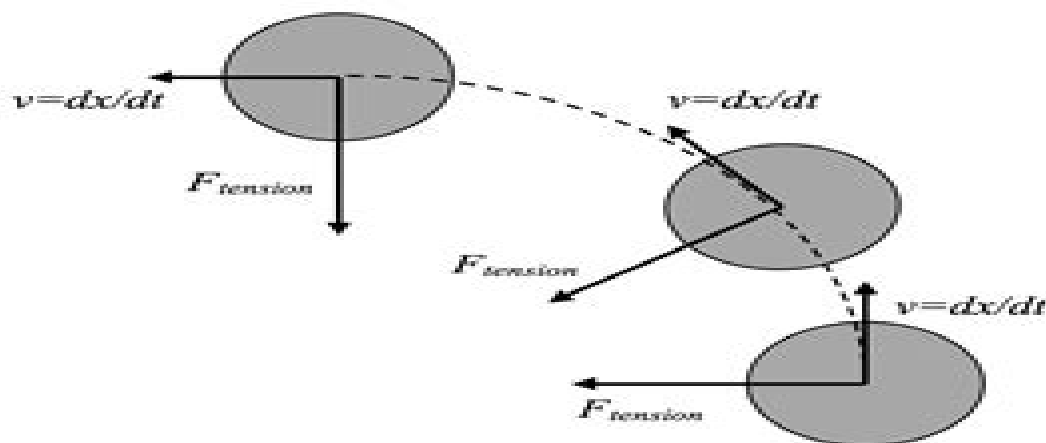
A disk of mass m is placed on a frictionless table, and attached to a vertically-hanging mass M by a string that passes through a frictionless opening in the surface. The disk has a speed v as it travels in a circle with a constant radius R . How much work is done on the disk in one half revolution?

- $Mg \cdot \pi R$
- $mg \cdot \pi R$
- $Mg \cdot \frac{1}{2} \pi R^2$
- $Mg \cdot 2R$
- none of these

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Answer:

The correct answer is *e*. $W = F \cdot x$, so $W = Fx \cos \theta$. *Zero* work is done on the disk because there are no forces acting in the direction of displacement (Δx), ie. F and Δx are perpendicular to each other for all forces. The force of gravity (weight) and the normal force act vertically while the disk is moving horizontally, so no work is done by them. The centripetal force due to the tension in the string acts perpendicular to the motion of the disk as the disk moves in a circle, so no work is done by the tension either.



Rotational Motion Physics Sample Questions

Greg Jacobs, Joshua Schulman



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