

CIRCULAR MOTION

2009-2011

1. A cyclist rides around a circular track at a uniform speed. Which of the following correctly gives the net horizontal force on the cyclist at any given instant of time?

	Net horizontal force along direction of motion	Net horizontal force <u>normal</u> to direction of motion
A.	zero	zero
<u>B.</u>	zero	<u>non zero</u>
C.	non zero	zero
D.	non zero	non zero

Because he is not speeding up or slowing down there is no acceleration tangentially (in direction of motion)

another word for perpendicular

Because he is turning it means he is accelerating, so there must be some force toward the center of curvature

2. A particle of mass m is moving with constant speed v in uniform circular motion. What is the total work done by the centripetal force during one revolution?

A. Zero

B. $\frac{mv^2}{2}$

C. mv^2

D. $2\pi mv^2$

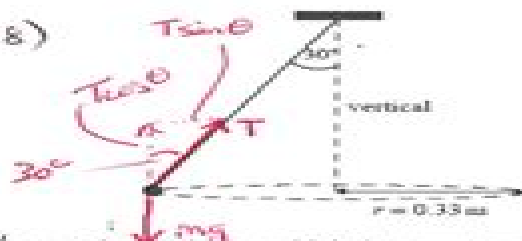
The force is always \perp to the displacement

$$W = F \cdot d \cos \theta$$

3. This question is about circular motion.

A ball of mass 0.25 kg is attached to a string and is made to rotate with constant speed v along a horizontal circle of radius $r = 0.33 \text{ m}$. The string is attached to the ceiling and makes an angle of 30° with the vertical.

$$\begin{aligned} \sum F_y &= 0 \\ T \cos 30^\circ &= (0.25)(9.8) \\ T &= 2.829 \text{ N} \\ \sum F_c &= ma_c \\ T \sin \theta &= mv^2/r \\ v^2 &= \frac{rT \sin \theta}{m} \end{aligned}$$



$$\begin{aligned} v^2 &= \frac{(0.33)(2.829) \sin 30^\circ}{0.25} \\ &= 1.867 \\ v &= 1.37 \text{ ms}^{-1} \end{aligned}$$

- (a) (i) On the diagram above, draw and label arrows to represent the forces on the ball in the position shown.

(2)

- (ii) State and explain whether the ball is in equilibrium.

Not in equilibrium because there is a net horizontal force pointing toward center of curvature to produce the centripetal acceleration

(2)

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