

Topics to be covered

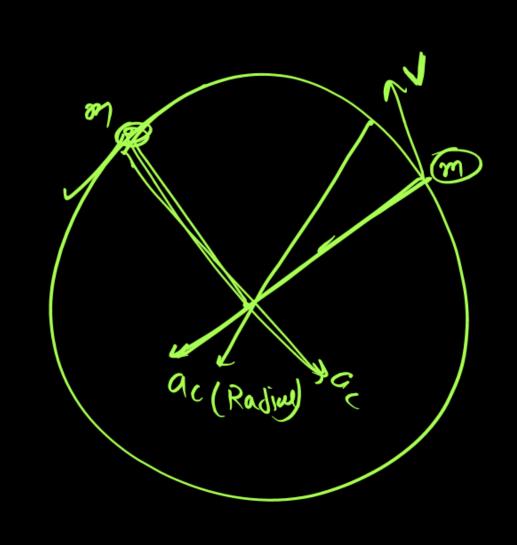


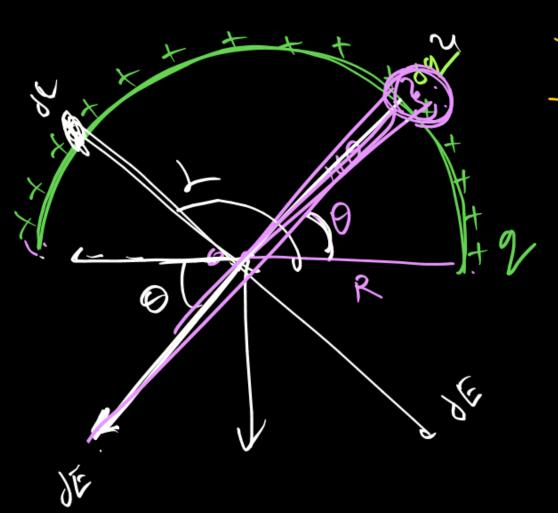
Circular arc

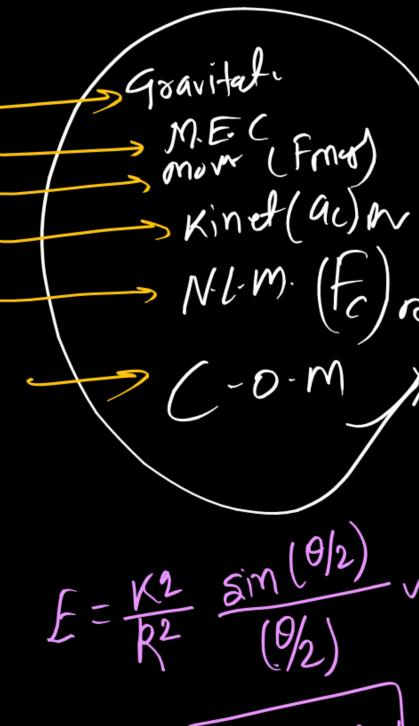


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halt Ring.

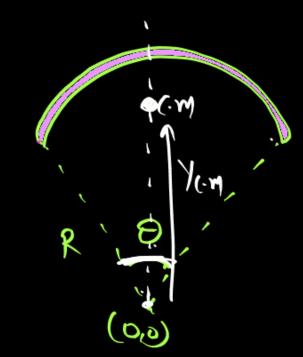
T 2= TRY Pultig value of (2) 2K MRA

the to halt Ry

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Gravitation fied MIR Mars=M. I gravitate field 9m sin 3/2 Gravitatin field at centre 0 = Arc Angle

C-O.M. Of circular Arc.



 $\chi_{n} = R_{x} \frac{\sin(\theta_{2})}{\theta_{2}}$

Semicion: $\frac{30}{20}$

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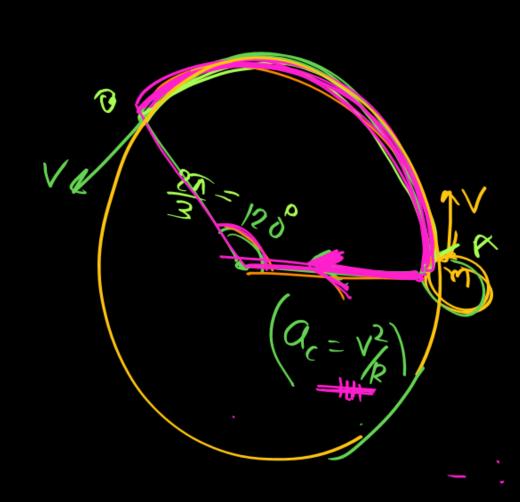
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Question



Object is moving on circular path with uniform speed v, then find its average acceleration when it rotated by angle 126.

at an Instant certripetal accn = $\frac{v^2}{R}$.



avg. Centrifety author Arc =
$$\frac{\sqrt{2}}{\sqrt{2}} \frac{\sin(\theta_2)}{\sqrt{2}}$$

= $\frac{\sqrt{2}}{\sqrt{2}} \frac{\sin(\frac{2\pi}{3})}{3\sqrt{2}}$

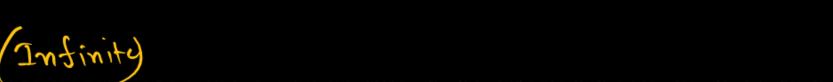
$$=\frac{2}{R}\times\frac{\sin(\sqrt{3})}{\sqrt{3}}$$

$$\frac{3\sqrt{3}\sqrt{3}}{R\pi2} - \frac{3\sqrt{3}\sqrt{2}}{2\pi R}$$

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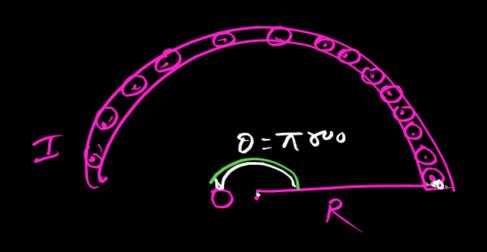
$$\mathbb{Z}_{A} = \mathbb{A} \mathbb{E} = \mathbb{A} \mathbb{E}$$

Question





Magnetic field on the axis of a long hollow semicylindrical current carrying wire,



$$B = \frac{(W.I)}{(2\pi R)} \frac{(\sin \pi / 2)}{(\pi / 2)}$$

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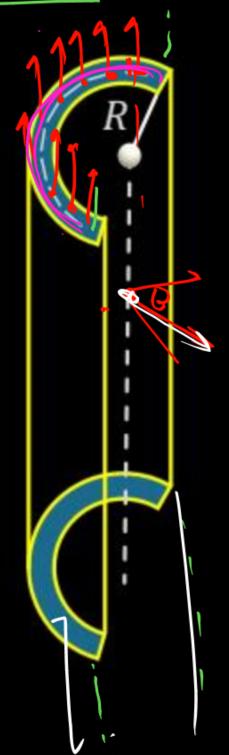
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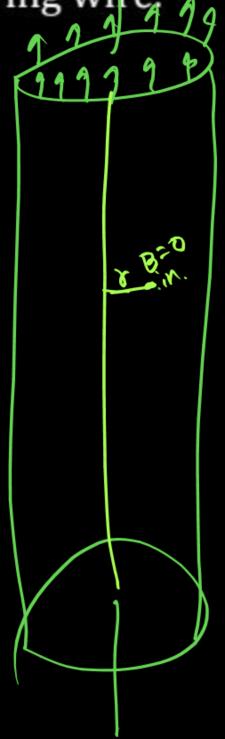
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Circula Current contrily wire

NET TR Arc Ka max

of EV mot

B is not radice

Avg rension force = -Avy Tensiur for = T sin 9/2 1 / ((otr) Ay centrifetul fore = my (sings) Value const but tir vanille Tension KI T= mv Value (magnitue) of Tensin is confant



