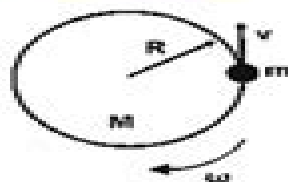


Name: Answers

AP Quiz: Rotational Motion

1. A disk is free to rotate about an axis perpendicular to the disk and passing through its center. If the disk starts from rest and accelerates uniformly at the rate of 5 rad/s^2 for 4 s, what is its angular displacement during this time? (1 pt)

- (A) 10 rad (B) 20 rad (C) 30 rad (D) 40 rad (E) 50 rad



$$\begin{aligned}\omega_0 &= 0 \\ \alpha &= 5 \text{ rad/s}^2 \\ t &= 4\text{s} \\ \Delta\theta &= ?\end{aligned}$$

$$\begin{aligned}\Delta\theta &= \omega_0 t + \frac{1}{2} \alpha t^2 \\ \Delta\theta &= 0 + \frac{1}{2} (5) (4)^2 \\ \Delta\theta &= 40 \text{ rad}\end{aligned}$$

2. There are two people on a merry go round. Person A is 2.3 m from the axis of rotation. Person B is 3.4 m from the axis of rotation. The merry go round moves through an angular displacement of $\pi/4$. What linear displacement (arc length) is covered by both people? (2 pts)

Person A
 $\Delta\theta = \pi/4$
 $r = 2.3 \text{ m}$

Person B
 $\Delta\theta = \pi/4$
 $r = 3.4 \text{ m}$
 $d = \Delta\theta r$

$$d = \Delta\theta r = (\pi/4)(2.3) = 1.81 \text{ m}$$

$$d = (\pi/4)(3.4) = 2.67 \text{ m}$$

3. A disc rotates about an axis through its center according to the function: $\theta(t) = t^3 - 3t^2$

- A) What is the angular displacement of the disc at 3 s? (1 pt)
B) What is the instant angular velocity of the disc at 3 s? (1 pt)
C) What is the instant angular acceleration at 3 s? (1 pt)
D) What is the average angular velocity at 4 s? (1 pt)

A) $\theta(3) = 3^3 - 3(3)^2 = 0 \text{ rad}$

B) $\theta(t) = \omega(t) = 3t^2 - 6t = 3(3)^2 - 6(3) = 9 \text{ rad/s}$

C) $\omega'(t) = \alpha(t) = 6t - 6 = 6(3) - 6 = 12 \text{ rad/s}^2$

D) $\theta(4) = 4^3 - 3(4)^2 = 16 \text{ rad}$

$$\omega_{avg} = \frac{\Delta\theta}{\Delta t} = \frac{16}{4} = 4 \text{ rad/s}$$

4. A child pushes, with a constant force, a merry-go-round with a radius of 2.5 m, from rest to an angular velocity of 3 rad/s in 8s. What is the merry-go-round's centripetal acceleration at this point? (2 pts)

$$\begin{aligned}\omega_0 &= 0 \\ \omega_f = 3 \text{ rad/s} &= V_{tan} = (3 \text{ rad/s})(2.5) = 7.5 \text{ m/s} \\ t &= 8\text{s}\end{aligned}$$

$$\begin{aligned}V_{tan} &= 7.5 \text{ m/s} \\ r &= 2.5 \text{ m}\end{aligned}$$

$$a_c = \frac{v^2}{r} = \frac{7.5^2}{2.5} = 22.5 \text{ m/s}^2$$

5. (1 pt)

Two wheels are fixed to each other and are free to rotate about a frictionless axis through their concentric centers. Four forces are exerted tangentially to the wheels. The magnitude of the net torque is:

- A. zero
B. FR
C. 2FR
D. 4FR



$$\begin{aligned}\textcircled{1} &= 2RF \text{ (-)} \\ \textcircled{2} &= 2RF \text{ (+)} \\ \textcircled{3} &= 2RF \text{ (+)} \\ \textcircled{4} &= 2FR \text{ (+)}\end{aligned}$$

$$4FR$$

Answers For Ap Physics Review Rotational Bertrand

Richard Bailey



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web born olga maria elisabeth frederike schwarzkopf december 9 1915 in jarotschin germany died august 3 2006 in schruns austria opera singer german lyric soprano elisabeth schwarzkopf enjoyed a stellar career in opera for several decades but in later years her legacy was overshadowed by charges that she had been a nazi sympathizer

elisabeth schwarzkopf wikipedia - Sep 22 2023

web dame olga maria elisabeth friederike schwarzkopf dbe 9 december 1915 3 august 2006 was a german born austro british lyric soprano she was among the foremost singers of lieder and is renowned for her performances of viennese operetta as well as the operas of mozart wagner and richard strauss

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als eine der führenden sopranistinnen der zweiten hälfte des 20 jahrhunderts die besonders für ihre interpretationen von mozart und strauss opern bekannt war

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web aug 6 2006 one of the great sopranos of the 20th century elisabeth schwarzkopf died in her sleep at her home in schrums austria on august 3 at the age of 90 the myriad ways in which she employed her remarkably expressive silvery soprano gave rise to as much admiration and respect as her penchant for incessant nuance along with her nazi past

elisabeth schwarzkopf simple english wikipedia the free - Dec 13 2022

web she was one of the most famous opera singers of the 20th century as well as a famous recitalist she was particularly known for singing the music of mozart schubert strauss and wolf early life elisabeth schwarzkopf was born in jarotschin in the province of posen in prussia schwarzkopf showed an interest in music from an early age

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elisabeth schwarzkopf 1915 2006 encyclopædia universalis - Apr 05 2022

web olga maria elisabeth friederike schwarzkopf naît le 9 décembre 1915 à jarotschin ville allemande devenue depuis lors polonaise jarocin elle entre en 1934 à la hochschule für musik de berlin où elle travaille sa voix avec une

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dame elisabeth schwarzkopf the guardian - May 18 2023

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web by alan jefferson northeastern university press upbringing in the weimar republic the third reich 1915 1938 olga maria elisabeth frederike schwarzkopf was born on 9 december 1915 her