

Problem Solutions Chapter #8 Giancoli 6th Edition

• **Problem #8:**

QUESTION: A rotating merry-go-round makes one complete revolution in 4.0 seconds (a) What is the linear speed of a child seated 1.2 meter from the center? (b) What is her acceleration?

ANSWER: The linear or tangential velocity $V = \omega R$ where $R = 1.2$ m is the distance to the axis of rotation. The period of revolution is $T = 4.0$ sec/cycle so the frequency $f = 1/4$ cycles/sec = 0.25 Hertz and the angular frequency in radians per second is $\omega = 2\pi f = 1.57$ Rad/s. The linear speed $V = \omega R = 1.57$ Rad/s \times 1.2 m = 1.9 m/s. The tangential acceleration is zero because it seems ω is constant (and so the angular acceleration is zero). The radial acceleration is $V_p = V^2/R = \omega^2 R = 2.96$ m/s² in the radial direction toward the center of the merry-go-round.

$$T = 4.0 \text{ s}$$

$$f = 1 / T$$

$$\omega = 2 \pi \cdot f$$

$$1.5708$$

$$R = 1.2 \text{ m}$$

$$V = \omega \cdot R$$

$$1.88496$$

$$a = v^2 / R$$

$$2.96088$$

• **Problem #9**

Calculate the angular velocity of the Earth (a) as it orbits the Sun and (b) about its axis.

ANSWER: $T = 365$ days/cycle for the Earth going about the Sun. $f = 1/T$ is the frequency in cycles/sec and $\omega = 2\pi f$ is the angular frequency in Rad/sec and $\omega = 1.2 \times 10^{-7}$ Rad/s.

$$T = 365 \cdot 24 \cdot 60 \cdot 60 \text{ s}$$

$$f = 1 / T$$

$$\omega = 2 \pi \cdot f$$

$$1.99228 \times 10^{-7}$$

PART B: $T = 24$ hours per day and this corresponds to $\omega = 7.27 \times 10^{-5}$ Rad/s.

$$T = 24 \cdot 60 \cdot 60 \text{ s}$$

$$f = 1 / T$$

$$\omega = 2 \pi \cdot f$$

$$0.0000727221$$

• **Problem #16**

An automobile engine slows down from 4500 rpm to 1200 rpm in 2.5 seconds. Calculate (a) its angular acceleration α assuming it is constant. 2π Rad = 1 Rev

$$\omega f = 1200 \cdot \pi \cdot (2 \pi \cdot \pi) \text{ s}$$

$$\omega 0 = 4500 \cdot \pi \cdot (2 \pi \cdot \pi) \text{ s}$$

$$t = 2.5 \text{ s}$$

$$\alpha = \frac{\omega f - \omega 0}{t}$$

$$-8292.8$$

The minus sign means there is a deceleration or slowing down.

Part (b) Calculate the total number of revolutions it makes in the time $t = 2.5$ sec.

ANSWER:

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JS Bruner



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Physics Giancoli 6th Edition Solutions Chapter 8: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels enthraling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and gripping novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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