Physics Questions

Translational Motion

1. Which of the following numbers is given to four significant figures?

- a. 0.00020
- Ь. 0.0020
- c. 2.000
- d. 2000

2. An auto travels at the rate of 25 km/h for 4.0 minutes, then at 50 km/h for 8.0 minutes, and finally at 20 km/h for 2.0 minutes. Find (a) the total distance covered in km and (b) the average speed for the complete trip in m/s.

- a. (a) 540 km, (b) 642 m/s
- b. (a) 12.5 km, (b) 38.6 m/s
- c. (a) 10.7 km, (b) 126 m/s
- d. (a) 9.0 km, (b) 10.7 m/s

3. A body with initial velocity 8.0 m/s moves along a straight line with constant acceleration and travels 640 m in 40 s. For the 40 s interval, find (a) the average velocity, (b) the final velocity, and (c) the acceleration.

- a. (a) 4.0 m/s, (b) 8.0 m/s, (c) 0.6 m/s²
- b. (a) 24 m/s, (b) 16 m/s, (c) 0.20 m/s²
- c. (a) 16 m/s, (b) 24 m/s, (c) 0.40 m/s²
- d. (a) 0.4 m/s, (b) 160 m/s, (c) 16 m/s²

4. A bottle dropped from a balloon reaches the ground in 20 s. Determine the height of the balloon if (a) it was at rest in the air and (b) it was ascending with a speed of 50 m/s when the bottle was dropped.

- a. (a) 98 km, (b) 2960 km
- b. (a) 196 km, (b) 1960 km
- c. (a) 0.49 km, (b) 1000 km
- d. (a) 2.0 km, (b) 0.96 km

5. A bug starts at point A, crawls 8.0 cm east, then 5.0 cm south, 3.0 cm west, and 4.0 cm north to point B. (a) How far north and east is B from A? (b) Find the displacement from A to B both graphically and algebraically.

- a. (a) 5.0 cm EAST, 1.0 cm SOUTH, (b) 5.10 cm 11.3° SOUTH OF EAST
- b. (a) 11.0 cm EAST, 1.0 cm SOUTH, (b) 11.1 cm 5.2° SOUTH OF EAST
- c. (a) 5.0 cm EAST, 1.0 cm NORTH, (b) 5.1 cm 11.3° NORTH OF EAST
- d. (a) 5.0 cm EAST, 9.0 cm SOUTH, (b) 10.1 cm 60.9° SOUTH OF EAST

Mcat Physics Practice Problems

Siddappa N.Byrareddy

Mcat Physics Practice Problems:

Mcat Physics Practice Problems: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have captivated audiences this year. The Must-Read: Colleen Hoovers "It Ends with Us" This touching tale of love, loss, and resilience has captivated 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 triumph. Mcat Physics Practice Problems: Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating 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. Mcat Physics Practice Problems: 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 crafts a tale of resilience, survival, and the transformative power of nature, captivating 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 engaging 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 guiet 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 speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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