

## REVIEW

## Chapter 9

## Impulse

1. A fullback of mass 120 kg traveling at 20.0 m/s collides with another player and comes to rest in 1.5 s. What was the force of the impact?

$$F = \frac{0 - 120 \text{ kg}(20.0 \text{ m/s})}{1.5 \text{ s}} = \boxed{-1600 \text{ N}}$$

Impulse  $Ft = m(v_f - v_i)$ 

2. A golf ball of mass 0.050 kg acquires a speed of 80.0 m/s when hit with a force of  $3.0 \times 10^3 \text{ N}$ . How long was the club in contact with the ball?

$$t = \frac{0.050 \text{ kg}(80.0 \text{ m/s} - 0)}{3.0 \times 10^3 \text{ N}} = \boxed{0.0013 \text{ s}}$$

## Impulse

3. What force, acting for  $1.35 \times 10^{-3} \text{ s}$ , will change the velocity of a 95-g baseball from 50.0 m/s eastward to 45.0 m/s westward?

$$F = \frac{95 \text{ g} \times \frac{1 \text{ kg}}{1,000 \text{ g}} (-45.0 \text{ m/s} - 50.0 \text{ m/s})}{1.35 \times 10^{-3} \text{ s}} = \boxed{-6700 \text{ N}}$$

(-6,685 N)

## Inelastic collision

4. A 65-kg ice skater traveling at 6.0 m/s runs head-on into an 85-kg skater traveling straight forward at 4.5 m/s. At what speed and in what direction do the ice skaters travel if they move together after the collision?

$$m_1 v_1 + m_2 v_2 = (m_1 + m_2) V \quad \oplus \quad \ominus$$

$$V = \frac{65 \text{ kg}(6.0 \text{ m/s}) + 85 \text{ kg}(-4.5 \text{ m/s})}{(65 \text{ kg} + 85 \text{ kg})} = \boxed{\oplus 0.050 \text{ m/s}}$$

(in direction of 65 kg skater)

## Elastic collision

5. A 4.0-kg object traveling westward at 25 m/s hits a 15-kg object at rest. The 4.0-kg object bounces eastward at 8.0 m/s. What is the speed and direction of the 15-kg object?

$$m_1 v_1 + m_2 v_2 = m_1 v_1' + m_2 v_2'$$

$$4.0 \text{ kg}(-25 \text{ m/s}) + 0 = 4.0 \text{ kg}(8.0 \text{ m/s}) + 15 \text{ kg} V$$

$$V = \frac{(-100 \text{ N}\cdot\text{s} - 32.0 \text{ N}\cdot\text{s})}{15 \text{ kg}} = \boxed{-8.8 \text{ m/s in direction of 4.0 kg object or westward}}$$

# Unit 5 Review Sheet Physics Answers

**Michael Rajnik**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

## **Unit 5 Review Sheet Physics Answers:**

Unit 5 Review Sheet Physics Answers: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the fascinating narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "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 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 absorbing 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 mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular 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 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 masterful and suspenseful novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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