

4. A 45kg linebacker moving at 4m/s East tackles a 55kg running back moving at 3.1m/s West. If the two stick together upon collision, how fast are they moving?

$$p_i = 45(4) + 55(-3.1) = (45 + 55)V_f$$

$$360 + -170.5 = 100V_f$$

$$V_f = -1.71 \text{ m/s (West)}$$

20: Collisions: Solve momentum X and momentum Y then combine by building a new triangle!

5. A 1500kg car traveling at 18m/s West collides with a 2000kg car traveling 25m/s North. If the two collide and stick together, what is the velocity (including direction) of the wreckage?

$$p_x = 1500(-18) + 0 = (1500 + 2000)V_{fx}$$

$$V_{fx} = -7.71 \text{ m/s}$$

$$p_y = 0 + 2000(25) = 3500V_{fy}$$

$$V_{fy} = 14.3 \text{ m/s}$$



$$V_f = 16.4 \text{ m/s } @ 101^\circ \text{ N of W}$$

6. A ball with a mass of 5kg is moving North with a speed of 3.5m/s. It collides with a 4kg ball moving East at 5.2m/s. If the first ball bounces off the collision at a speed of 4.2m/s @ 12° S of E, what is the velocity of the second ball?

$$p_x = 5(0) + 4(5.2) = 5(4.2) + 4(V_{2x})$$

$$V_{2x} = 1.9 \text{ m/s}$$

$$p_y = 5(3.5) + 4(0) = 5(2.7) + 4(V_{2y})$$

$$V_{2y} = 3.4 \text{ m/s}$$



$$V_f = 3.7 \text{ m/s } @ 73^\circ \text{ N of E}$$

7. An 550,000kg airplane originally moving at 200m/s @ 34° S of W collides with a 600,000kg airplane moving at 275m/s @ 26° N of W. If the first airplane bounces off the collision with a speed of 215m/s straight West, what is the velocity (including direction) of the second airplane?

$$m_1 = 550000$$

$$V_{1i} = 200$$

$$V_{1f} = 215$$

$$V_{1y} = 141.8$$

$$m_2 = 600000$$

$$V_{2i} = 275$$

$$V_{2y} = 120.4$$

$$V_{1x} = -121.9$$

$$V_{1y} = 0$$

$$V_{2x} = -157.92$$

$$V_{2y} = -27.7$$

$$p_x = 550000(-121.9) + 600000(-275) = 550000(-215) + 600000V_{2x}$$

$$-2.12 \times 10^8 = -1.1925 \times 10^8 + 600000V_{2x}$$

$$V_{2x} = -157.92$$

$$p_y = 550000(-141.8) + 600000(120.4) = 550000(0) + 600000V_{2y}$$

$$V_{2y} = -27.7$$



# Physics Final Exam Review 2nd Semester

**Léo Pomar**



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## **Table of Contents Physics Final Exam Review 2nd Semester**

1. Understanding the eBook Physics Final Exam Review 2nd Semester
  - The Rise of Digital Reading Physics Final Exam Review 2nd Semester
  - Advantages of eBooks Over Traditional Books
2. Identifying Physics Final Exam Review 2nd Semester
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Physics Final Exam Review 2nd Semester
  - User-Friendly Interface
4. Exploring eBook Recommendations from Physics Final Exam Review 2nd Semester
  - Personalized Recommendations
  - Physics Final Exam Review 2nd Semester User Reviews and Ratings
  - Physics Final Exam Review 2nd Semester and Bestseller Lists

5. Accessing Physics Final Exam Review 2nd Semester Free and Paid eBooks
  - Physics Final Exam Review 2nd Semester Public Domain eBooks
  - Physics Final Exam Review 2nd Semester eBook Subscription Services
  - Physics Final Exam Review 2nd Semester Budget-Friendly Options
6. Navigating Physics Final Exam Review 2nd Semester eBook Formats
  - ePub, PDF, MOBI, and More
  - Physics Final Exam Review 2nd Semester Compatibility with Devices
  - Physics Final Exam Review 2nd Semester Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Physics Final Exam Review 2nd Semester
  - Highlighting and Note-Taking Physics Final Exam Review 2nd Semester
  - Interactive Elements Physics Final Exam Review 2nd Semester
8. Staying Engaged with Physics Final Exam Review 2nd Semester
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Physics Final Exam Review 2nd Semester
9. Balancing eBooks and Physical Books Physics Final Exam Review 2nd Semester
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Physics Final Exam Review 2nd Semester
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Physics Final Exam Review 2nd Semester
  - Setting Reading Goals Physics Final Exam Review 2nd Semester
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Physics Final Exam Review 2nd Semester
  - Fact-Checking eBook Content of Physics Final Exam Review 2nd Semester
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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