

4. A 45kg linebacker moving at 4m/s East tackles a 55kg running back moving at 5.1m/s West. If the two stick together upon collision, how fast are they moving?

$$p_i = 45(4) + 55(-5.1) = (45 + 55)v_f$$

$$360 + -280.5 = 100v_f$$

$$v_f = -1.71 \text{ m/s (west)}$$

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

5. A 1500kg car traveling at 1 km/s West collides with a 2000kg car traveling 25km/s North. If the two collide and stick together, what is the velocity (including direction) of the wreckage?

$$P_x: 1500(-1) + 0 = (2000 + 1500)v_x$$

$$v_x = -0.27 \text{ m/s}$$

$$P_y: 0 + 2000(25) = 3500v_y$$

$$v_y = 14.3 \text{ m/s}$$



$$v = 14.3 \text{ m/s } @ 91.7^\circ \text{ N of W}$$

6. A ball with a mass of 5kg is moving North with a speed of 3 m/s. It collides with a 4kg ball moving East at 5 m/s. If the first ball bounces off the collision at a speed of 4.2 m/s @ 12° N of E, what is the velocity of the second ball?

$$P_x: 5(0) + 4(5) = 5(4.2) + 4(v_x)$$

$$v_x = 2 \text{ m/s}$$

$$P_y: 5(3) + 4(0) = 5(4.2 \sin 12^\circ) + 4(v_y)$$

$$v_y = 3.4 \text{ m/s}$$



$$v = 4 \text{ m/s } @ 59.5^\circ \text{ N of E}$$

7. An 50,000kg airplane originally moving at 200m/s @ 34° S of W collides with a 60,000kg 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?

$m_1 = 50000$

$v_{1x} = 117.0$       $v_{1y} = -114.8$

$m_2 = 60000$

$v_{2x} = 247.2$       $v_{2y} = 129.4$

$$P_x: 50000(-117.0) + 60000(247.2) = 50000(-215) + 60000v_x$$

$$-5.85 \times 10^6 + 1.4832 \times 10^7 = -1.075 \times 10^7 + 60000v_x$$

$$v_x = 157.92$$

$$P_y: 50000(-114.8) + 60000(129.4) = 50000(0) + 60000v_y$$

$$v_y = -27.7$$



$v_{1x} = 4$   
 $v_{1y} = 12$   
 $v_{2x} = 5$   
 $v_{2y} = 0$   
 $v_{1x} = 4.2$   
 $v_{1y} = 0.85$

$v_{1x} = 0$       $v_{1y} = 4.11$   
 $v_{2x} = 5$       $v_{2y} = 2.73$   
 $v_{1x} = 4.2$   
 $v_{1y} = 0.85$



# 2nd Semester Final Exam Review A Physics

**Katrin Zwirgmaier**



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

1. Understanding the eBook 2nd Semester Final Exam Review A Physics
  - The Rise of Digital Reading 2nd Semester Final Exam Review A Physics
  - Advantages of eBooks Over Traditional Books
2. Identifying 2nd Semester Final Exam Review A Physics
  - 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 2nd Semester Final Exam Review A Physics
  - User-Friendly Interface
4. Exploring eBook Recommendations from 2nd Semester Final Exam Review A Physics
  - Personalized Recommendations
  - 2nd Semester Final Exam Review A Physics User Reviews and Ratings
  - 2nd Semester Final Exam Review A Physics and Bestseller Lists

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