

4. A 50kg truck driver moving at 20m/s East collides with a 50kg running back moving at 5.0m/s West. If the two stick together upon collision, how fast are they moving?

$$P_1 = 50(20) = 1000 \text{ Ns} \quad P_2 = 50(-5) = -250 \text{ Ns}$$

$$\Delta P = 1000 - 250 = 750 \text{ Ns}$$

$$V' = -17.1 \text{ m/s (West)}$$

2D Collisions: Solve momentum X and momentum Y then combine by drawing a new triangle

5. A 1500kg car travelling at 10m/s West collides with a 2000kg car travelling 25m/s North. If the two collide and stick together, what is the velocity (including direction) of the wreckage?

$$P_1 = 1500(10) = 15000 \text{ Ns} \quad P_2 = 2000(25) = 50000 \text{ Ns}$$

$$\Delta P = 50000 - 15000 = 35000 \text{ Ns} \quad \text{Approaching} \rightarrow \text{North}$$



6. A ball with a mass of 5kg is moving North with a speed of 3.0m/s. It collides with a 4kg ball moving East at 5.0m/s. If the first ball bounces off the collision at a speed of 4.0m/s at 127.3° N of E, what is the velocity of the second ball?

$$P_1 = 5(3) = 15 \text{ Ns} \quad P_2 = 4(5) = 20 \text{ Ns}$$

$$\Delta P = 20 - 15 = 5 \text{ Ns} \quad \text{Approaching} \rightarrow \text{North}$$



7. An 850000kg airplane originally moving at 100m/s @ 24° S of W collides with a 600,000kg airplane moving at 275m/s @ 26° S 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?

$$P_1 = 850000 \text{ Ns}$$

$$V_{1x} = 100 \cos 24^\circ \quad V_{1y} = -100 \sin 24^\circ$$

$$V_{1x} = 91.4 \text{ m/s}$$

$$V_{1y} = -24.3 \text{ m/s}$$

$$V_{1x} = 91.4 \text{ m/s}$$

$$V_{1y} = -24.3 \text{ m/s}$$

$$V_{1x} = 91.4 \text{ m/s}$$

$$V_{1y} = -24.3 \text{ m/s}$$

$$P_2 = 600000(-100 \cos 26^\circ + 100 \sin 26^\circ) = -1200000 \cos 26^\circ + 1200000 \sin 26^\circ$$

$$V_{2x} = -167.9 \text{ m/s}$$

$$P_3 = 850000(-100 \cos 24^\circ + 100 \sin 24^\circ) - 1200000 \cos 26^\circ + 1200000 \sin 26^\circ$$

$$V_{3x} = -215 \text{ m/s}$$



$$V_{3x} = -215 \text{ m/s} \quad \text{at } 24^\circ \text{ S of W}$$

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United States Air Force Academy

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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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