

4. A 60kg bungee jumper moving at 8m/s East collides with a 50kg running back moving at 5.5m/s West. If the two stick together upon collision, how fast are they moving?

$$P_1 = 60(8) = 480 \text{ kg m/s} \quad P_2 = 50(-5.5) = -275 \text{ kg m/s}$$

$$\Delta P = 480 - 275 = 205 \text{ kg m/s}$$

$$V' = -2.11 \text{ m/s (West)}$$

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

5. A 1500kg car travelling at 18m/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?

$$P_1 = 1500(18) = 27000 \text{ kg m/s} \quad P_2 = 2000(25) = 50000 \text{ kg m/s}$$

$$V' = -7.71 \text{ m/s S. E.}$$

$$P_1 = 27000 \text{ (West)} = \text{approaching}$$

$$P_2 = 50000 \text{ (North)} = \text{leaving} \rightarrow \text{West}$$

6. A ball with a mass of 5kg is moving North with a speed of 3.5m/s. It collides with a 3kg ball moving East at 5m/s. If the first ball bounces off the collision at a speed of 4.2m/s at 127.5° off E, what is the velocity of the second ball?

$$P_1 = 5(3.5) = 17.5 \text{ kg m/s} \quad P_2 = 3(5) = 15 \text{ kg m/s}$$

$$V' = 3.06 \text{ m/s}$$

$$P_1 = 5(3.5) = 17.5 \text{ kg m/s} \quad P_2 = 3(5) = 15 \text{ kg m/s}$$

$$V' = 3.06 \text{ m/s}$$



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?

$$P_1 = 850000 \text{ kg m/s}$$

$$V_{1x} = 171.4 \quad V_{1y} = -76.15$$

$$V_{1x} = 0 \quad V_{1y} = 0$$

$$P_2 = 600000 \text{ kg m/s}$$

$$V_{2x} = 237.5 \quad V_{2y} = -120.4$$

$$V_{2x} = 0 \quad V_{2y} = 0$$

$$P_1 = 850000(-171.4) + 600000(237.5) = 600000(-171.4) + 850000(215)$$

$$-2.125 \times 10^9 = -1.125 \times 10^9 + 1.825 \times 10^9$$

$$V_{2x} = -157.9 \text{ m/s}$$

$$P_1 = 850000(-171.4) + 600000(237.5) = 600000(-171.4) + 850000(215)$$

$$-2.125 \times 10^9 = -1.125 \times 10^9 + 1.825 \times 10^9$$

$$V_{2x} = -215.0 \text{ m/s}$$

$$V_{2x} = -215.0 \text{ m/s} \quad V_{2y} = 91.5 \text{ m/s}$$

2nd Semester Final Exam Review A Physics

Ian Pickup

2nd Semester Final Exam Review A Physics:

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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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