

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?

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

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

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

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



$$V_f = 17.1 \text{ m/s } @ 41.7^\circ \text{ N of W}$$

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?

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

$$V_{2x} = 2.6 \text{ m/s}$$

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

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



$$V_f = 4.2 \text{ m/s } @ 23.5^\circ \text{ N of E}$$

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?

$$m_1 = 550000$$

$$V_{1x} = 117.0$$

$$V_{1y} = 114.8$$

$$m_2 = 600000$$

$$V_{2x} = 275$$

$$V_{2y} = 120.4$$

$$V_{1x}' = -215$$

$$V_{1y}' = 0$$

$$V_{2x}' =$$

$$V_{2y}' =$$

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

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

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

$$p_y = 550000(-114.8) + 600000(120.4) = 550000(0) + 600000V_{2y}'$$

$$V_{2y}' = -22.9$$



Physics Final Semester

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Table of Contents Physics Final Semester

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

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