

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?

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

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

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

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



$$V_f = 16.3 \text{ m/s } @ 101.7^\circ \text{ (or } 9.3^\circ \text{ West)}$$

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?

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

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

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

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



$$V_f = 3.7 \text{ m/s } @ 42.3^\circ \text{ North}$$

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?

$$m_1 = 550000$$

$$V_{1x} = 117.0$$

$$V_{1y} = 141.8$$

$$m_2 = 600000$$

$$V_{2x} = 275$$

$$V_{2y} = 120.4$$

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

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

$$V_{2x}' =$$

$$V_{2y}' =$$

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

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

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

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

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



# 2nd Semester Final Exam Review A Physics

**United States Air Force Academy**

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the United States Air Force Academy text.

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