

4. A 50kg bobsledder moving at 80m/s collides with a 50kg running back moving at 5.0m/s. When the two collide together upon collision, how fast are they moving?

$$P_1 = 50(80) = 50(-5.0) = (65, 50\text{N})$$

$$p_{\text{tot}} = 300 \text{ N} = 140\text{N}$$

$$V' = \sqrt{171} \text{ m/s (0.95 S)}$$

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

5. A 1500kg car travelling at 10m/s West collides with a 2000kg car travelling 2 South. What is the two collide and stick together, what is the velocity (including direction) of the wreckage?

$$P_1 = 15000(-10) = 20000(0) = (15000, 0)$$

$$V' = -7.5 \text{ m/s S. E.}$$

$$P_2 = 0 = 20000(0) = \text{approaching}$$

$$\text{approaching} \rightarrow 7.5 \text{ m/s S. E.}$$

6. A ball with a mass of 5kg is moving North with a speed of 3.0m/s. It collides with a 3kg ball moving East at 5.0m/s. If the first ball bounces off the collision at a speed of 4.0m/s at 127.5° off E, what is the velocity of the second ball?

$$P_1 = 5(3.0) + 3(5.0) = (5(4.0) + 3(5.0))$$

$$V' = 3.0 \text{ m/s}$$

$$P_2 = 5(0) + 3(0) = 5(0.75) + 3(5.0)$$



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?

$$P_1 = 850000$$

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

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

$$P_2 = 600000$$

$$V_{2x} = -275 \quad V_{2y} = -120$$

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

$$P_1 = 850000(-171.4) + 600000(-275) = 850000(-171.4) + 600000(-275)$$

$$V_{1x} = -157.9 \text{ m/s}$$

$$P_2 = 850000(-171.4) + 600000(215) = 200000(215)$$

$$V_{2x} = -215 \text{ m/s}$$



$$215 = 160.3 \text{ m/s } @ 93.5^\circ \text{ S of E}$$

2nd Semester Final Exam Review A Physics

Christian G. Meyer

2nd Semester Final Exam Review A Physics:

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