

4. A 60kg bungee jumper moving at 80m/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?

$$p_1 = 60(80) = 480 \text{ kg m/s} \quad p_2 = 50(-5) = -250 \text{ kg m/s}$$

$$p_{\text{tot}} = 480 - 250 = 230 \text{ kg m/s}$$

$$V' = \frac{230}{110} = 2.1 \text{ m/s (West)}$$

2D Collisions: Solve momentum X and momentum Y then combine by building 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?

$$p_1 = 1500(10) = 15000 \text{ kg m/s} \quad p_2 = 2000(25) = 50000 \text{ kg m/s}$$

$$V' = -7.7 \text{ m/s S. E.}$$

$$p_1 = 15000 \text{ (West)} = \text{approaching}$$

$$p_2 = 50000 \text{ (North)} = \text{leaving} \rightarrow \text{West}$$



6. A ball with a mass of 5kg is moving North with a speed of 3.0m/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 127.5° off E, what is the velocity of the second ball?

$$p_1 = 5(3.0) = 15 \text{ kg m/s} \quad p_2 = 4(5.0) = 20 \text{ kg m/s}$$

$$V' = 20.3 \text{ m/s}$$



$$p_1 = 5(3.0) = 15 \text{ kg m/s} \quad p_2 = 4(5.0) = 20 \text{ kg m/s}$$

$$V' = 20.3 \text{ m/s}$$



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?

$$p_1 = 850000$$

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

$$V_{1x} = 92.1 \quad V_{1y} = 41.2$$

$$p_1 = 850000$$

$$V_{2x} = 275 \cos 26^\circ \quad V_{2y} = 275 \sin 26^\circ$$

$$V_{2x} = 246.4 \quad V_{2y} = 120.7$$

$$p_1 = 850000(-1.0) + 850000(0.24 + 0.41) = 850000(-1.0) + 850000(0.65)$$

$$V_{1x} = -167.9 \text{ m/s}$$

$$p_1 = 850000(-1.0) + 850000(0.24 + 0.41) = 850000(-1.0) + 850000(0.65)$$

$$V_{1y} = -21.7$$



$$V' = \sqrt{167.9^2 + 21.7^2} = 169.3 \text{ m/s} @ 9.5^\circ \text{ S of E}$$

# 2nd Semester Final Exam Review A Physics

**Alan Axelrod**

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