

4. A 45kg linebacker moving at 4m/s East tackles a 55kg running back moving at 5.1m/s West. If the two stick together upon collision, how fast are they moving?

$$p_{1i} + p_{2i} = (m_1 + m_2)v_f$$

$$45(4) + 55(-5.1) = (45 + 55)v_f$$

$$180 - 280.5 = 100v_f$$

$$v_f = -1.015 \text{ m/s (west)}$$

20. Collisions: Solve momentum X and momentum Y then combine by building a new triangle!

5. A 1500kg car traveling at 1 km/s West collides with a 2000kg car traveling 25km/s North. If the two collide and stick together, what is the velocity (including direction) of the wreckage?

$$P_x: 1500(-1) + 0 = (2000 + 1500)v_x$$

$$-1500 = 3500v_x$$

$$v_x = -0.4286 \text{ km/s}$$

$$P_y: 0 + 2000(25) = 3500v_y$$

$$50000 = 3500v_y$$

$$v_y = 14.2857 \text{ km/s}$$



$$v = 14.2857 \text{ km/s } @ 91.7^\circ \text{ N of W}$$

6. A ball with a mass of 5kg is moving North with a speed of 3 km/s. It collides with a 4kg ball moving East at 5 km/s. If the first ball bounces off the collision at a speed of 4.2 km/s @ 12° N of E, what is the velocity of the second ball?

$$P_x: 5(0) + 4(5) = 5(4.2 \cos 12^\circ) + 4(v_x)$$

$$20 = 21(0.978) + 4v_x$$

$$20 = 20.538 + 4v_x$$

$$-0.538 = 4v_x$$

$$v_x = -0.1345 \text{ km/s}$$

$$P_y: 5(3) + 4(0) = 5(4.2 \sin 12^\circ) + 4(v_y)$$

$$15 = 21(0.2079) + 4v_y$$

$$15 = 4.3659 + 4v_y$$

$$10.6341 = 4v_y$$

$$v_y = 2.6585 \text{ km/s}$$



$$v = 2.6585 \text{ km/s } @ 92.5^\circ \text{ N of E}$$

7. An 50,000kg airplane originally moving at 200m/s @ 34° S of W collides with a 60,000kg 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?

$m_1 = 50000$

$v_{1i} = 171.0$       $v_{1f} = -215$

$v_{1y} = 161.8$       $v_{1y} = 0$

$m_2 = 60000$

$v_{2i} = 277.2$       $v_{2f} = ?$

$v_{2y} = 120.4$       $v_{2y} = ?$

$$P_x: 50000(-171) + 60000(277.2) = 50000(-215) + 60000v_x$$

$$-8550000 + 16632000 = -10750000 + 60000v_x$$

$$8082000 = -10750000 + 60000v_x$$

$$18832000 = 60000v_x$$

$$v_x = 313.87$$

$$P_y: 50000(161.8) + 60000(120.4) = 50000(0) + 60000v_y$$

$$8090000 + 7224000 = 60000v_y$$

$$15314000 = 60000v_y$$

$$v_y = 255.23$$



$v_{1i} = 4$   
 $v_{1y} = 0$   
 $m_1 = 2000$   
 $v_{2i} = 0$   
 $v_{2y} = 25$

$m_1 = 5$   
 $v_{1i} = 3$   
 $v_{1y} = 0$   
 $m_2 = 4$   
 $v_{2i} = 5$   
 $v_{2y} = 0$



# 2nd Semester Final Exam Review A Physics

**Oscar Krisen Buros**



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