

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?

$$45(4) + 55(-3.1) = (45 + 55)V'$$

$$180 + -170.5 = 100V'$$

$$V' = -.171 \text{ m/s (west)}$$

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

5. A 1500kg car traveling at 10m/s West collides with a 2000kg car traveling 20m/s North. If the two collide and stick together, what is the velocity (including direction) of the wreckage?

$$P_x: 1500(-10) + 0 = (1500+2000)(V_x')$$

$$-15000 = 3500V_x'$$

$$V_x' = -4.2857 \text{ m/s}$$

$$P_y: 0 + 2000(20) = 3500V_y'$$

$$40000 = 3500V_y'$$

$$V_y' = 11.4286 \text{ m/s}$$



$$V = 12.3 \text{ m/s } @ 69.1^\circ \text{ N of W}$$

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

$$P_x: 5(0) + 4(5) = 5(4.2) + 4(V_x')$$

$$20 = 21 + 4V_x'$$

$$V_x' = 0.25 \text{ m/s}$$

$$P_y: 5(3) + 4(0) = 5(4.2) + 4(V_y')$$

$$15 = 21 + 4V_y'$$

$$V_y' = -1.5 \text{ m/s}$$



$$V = 1.51 \text{ m/s } @ 88.2^\circ \text{ S of E}$$

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?

$m_1 = 50000$

$V_{1x} = 117.0$        $V_{1x}' = -215$

$V_{1y} = 114.8$        $V_{1y}' = 0$

$m_2 = 60000$

$V_{2x} = 247.2$        $V_{2x}' =$

$V_{2y} = 120.4$        $V_{2y}' =$

$$P_x: 50000(-117.0) + 60000(247.2) = 50000(-215) + 60000V_{2x}'$$

$$-5850000 + 14832000 = -10750000 + 60000V_{2x}'$$

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

$$P_y: 50000(114.8) + 60000(120.4) = 50000(0) + 60000V_{2y}'$$

$$5740000 + 7224000 = 60000V_{2y}'$$

$$V_{2y}' = 212.7$$



$V_x = 0$   
 $V_y = 12$   
 $V = 12$   
 $m = 2000$   
 $V = 0$   
 $V = 25$

$V_x = 0$   
 $V_y = 4.11$   
 $V_x = 0$   
 $V_y = 2873$   
 $V_x = 0$   
 $V_y = 0$   
 $V_x = 0$   
 $V_y = 0$



# 2nd Semester Final Exam Review A Physics

**M Woodhall**



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