

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?

$$45(4) + 55(-5.1) = (45 + 55)V'$$

$$180 + -280.5 = 100V'$$

$$V' = -1.11 \text{ m/s (west)}$$

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?

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

$$V_x' = -0.3 \text{ km/s}$$

$$P_y: 0 + 2000(25) = 3500V_y'$$

$$V_y' = 14.3 \text{ km/s}$$



$$V = 14.3 \text{ km/s } @ 1.2^\circ \text{ N of W}$$

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?

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

$$V_x' = 2 \text{ km/s}$$

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

$$V_y' = 3.4 \text{ km/s}$$



$$V = 4 \text{ km/s } @ 59.5^\circ \text{ N of E}$$

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?

$m_1 = 50000$
 $V_{1x} = 117.0$
 $V_{1y} = 114.8$
 $m_2 = 60000$
 $V_{2x} = 247.2$
 $V_{2y} = 130.4$
 $V_{1x}' = -215$
 $V_{1y}' = 0$
 $V_{2x}' =$
 $V_{2y}' =$

$$P_x: 50000(-117) + 60000(247.2) = 50000(-215) + 60000V_{2x}'$$

$$-5.85 \times 10^6 + 1.4832 \times 10^7 = -1.075 \times 10^7 + 60000V_{2x}'$$

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

$$P_y: 50000(114.8) + 60000(130.4) = 50000(0) + 60000V_{2y}'$$

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



$V_x = 0$
 $V_y = 0$
 $V_x = 2000$
 $V_y = 0$
 $V_x = 0$
 $V_y = 25$

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



Physics Final Exam Semester 2 Review Answers

AN Whitehead



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