

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?

$$\begin{aligned}
 (45)(4) + 55(-3.1) &= (45+55)V_f \\
 180 + -170.5 &= 100V_f \\
 V_f &= -1.1m/s \text{ (West)}
 \end{aligned}$$

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

5. A 1500kg car traveling at 18m/s West collides with a 2000kg car traveling 25m/s North. If the two collide and stick together, what is the velocity (including direction) of the wreckage?

$$\begin{aligned}
 P_x: 1500(-18) + 0 &= (1500+2000)V_{fx} \\
 -27000 &= 3500V_{fx} \\
 V_{fx} &= -7.71m/s \leftarrow
 \end{aligned}$$

$$\begin{aligned}
 P_y: 0 + 2000(25) &= 3500V_{fy} \\
 50000 &= 3500V_{fy} \\
 V_{fy} &= 14.3m/s \uparrow
 \end{aligned}$$



$$V_f = 16.1m/s @ 4.1^\circ \text{ N of W}$$

6. A ball with a mass of 5kg is moving North with a speed of 3.5m/s. It collides with a 4kg ball moving East at 5.2m/s. If the first ball bounces off the collision at a speed of 4.2m/s @ 12° S of E, what is the velocity of the second ball?

$$\begin{aligned}
 P_x: 5(0) + 4(5.2) &= 5(4.2) + 4(V_{2x}) \\
 20.8 &= 21 + 4V_{2x} \\
 V_{2x} &= 0.2m/s
 \end{aligned}$$

$$\begin{aligned}
 P_y: 5(3.5) + 4(0) &= 5(4.2) + 4(V_{2y}) \\
 17.5 &= 21 + 4V_{2y} \\
 V_{2y} &= -0.875m/s
 \end{aligned}$$



$$V_f = 0.92m/s @ 1.1^\circ \text{ S of E}$$

7. An 550,000kg airplane originally moving at 200m/s @ 34° S of W collides with a 600,000kg 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?

$$m_1 = 550000$$

$$V_{1x} = 17.0$$

$$V_{1y} = 14.8$$

$$m_2 = 600000$$

$$V_{2x} = 27.2$$

$$V_{2y} = 12.4$$

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

$$V_{1y}' = 0$$

$$V_{2x}' =$$

$$V_{2y}' =$$

$$\begin{aligned}
 P_x: 550000(-17.0) + 600000(27.2) &= 550000(-215) + 600000V_{2x}' \\
 -9410000 &= -118250000 + 600000V_{2x}' \\
 V_{2x}' &= 197.92
 \end{aligned}$$

$$\begin{aligned}
 P_y: 550000(14.8) + 600000(12.4) &= 550000(0) + 600000V_{2y}' \\
 14180000 &= 600000V_{2y}' \\
 V_{2y}' &= 23.6
 \end{aligned}$$



$$V_f = 160.3m/s @ 6.95^\circ \text{ S of W}$$

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