

4. A 50kg truck driver moving at 20m/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?

$$P_1 = 50(20) = 1000 \text{ Ns} \quad P_2 = 50(-5) = -250 \text{ Ns}$$

$$\Delta P = 1000 - 250 = 750 \text{ Ns}$$

$$V' = -17.1 \text{ m/s (West)}$$

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

$$P_1 = 1500(10) = 15000 \text{ Ns} \quad P_2 = 2000(25) = 50000 \text{ Ns}$$

$$\Delta P = 50000 - 15000 = 35000 \text{ Ns} \quad \text{Approaching} \rightarrow \text{North}$$



6. A ball with a mass of 5kg is moving North with a speed of 3.0m/s. It collides with a 5kg ball moving East at 5.0m/s. If the first ball bounces off the collision at a speed of 4.0m/s at 127.3° N of E, what is the velocity of the second ball?

$$P_1 = 5(3) = 15 \text{ Ns} \quad P_2 = 5(5) = 25 \text{ Ns}$$

$$\Delta P = 25 - 15 = 10 \text{ Ns}$$

$$P_3 = \sqrt{15^2 + 10^2} = \sqrt{225 + 100} = \sqrt{325} = 18.0 \text{ Ns}$$



7. An 850000kg airplane originally moving at 200m/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?

$$P_1 = 850000 \text{ Ns}$$

$$V_{1x} = 200 \cos 24^\circ \quad V_{1y} = -200 \sin 24^\circ$$

$$V_{1x} = 187.1 \quad V_{1y} = -85.7$$

$$P_2 = 600000 \text{ Ns}$$

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

$$V_{2x} = 250.4 \quad V_{2y} = -119.2$$

$$P_3 = 850000(-187.1) + 600000(250.4) = 600000(250.4) - 850000(187.1) = 149.35 \times 10^6 \text{ Ns}$$

$$\Delta P = 149.35 \times 10^6 \text{ Ns}$$

$$V_{3x} = \frac{149.35 \times 10^6}{850000} = 175.6 \text{ m/s} \quad V_{3y} = -20.7$$



$$V = 175.6 \text{ m/s} @ 20.7^\circ \text{ S of W}$$

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