

4. A 60kg bungee jumper moving at 8m/s East collides with a 50kg running back moving at 5.5m/s West. If the two stick together upon collision, how fast are they moving?

$$P_1 = 60(8) = 480 \text{ kg m/s} \quad P_2 = 50(-5.5) = -275 \text{ kg m/s}$$

$$\Delta P = 480 - 275 = 205 \text{ kg m/s}$$

$$V' = -205/110 = -1.86 \text{ m/s (West)}$$

2D Collisions: Solve momentum X and momentum Y then combine by breaking a new triangle

5. A 1500kg car travelling at 18m/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?

$$P_1 = 1500(-18) = -27000 \text{ kg m/s} \quad P_2 = 2000(25) = 50000 \text{ kg m/s}$$

$$V' = -7.27 \text{ m/s S. E.}$$

$$P_1 = 2000(25) = 50000 \text{ kg m/s N. E. (approaching)} \quad P_2 = 1500(-18) = -27000 \text{ kg m/s S. E. (receding)}$$

6. A ball with a mass of 5kg is moving North with a speed of 3.5m/s. It collides with a 3kg ball moving East at 5m/s. If the first ball bounces off the collision at a speed of 4.2m/s at 127.5° off E, what is the velocity of the second ball?

$$P_1 = 5(3.5) = 17.5 \text{ kg m/s} \quad P_2 = 3(5) = 15 \text{ kg m/s}$$

$$V' = 4.2 \text{ m/s N. E.}$$

$$P_1 = 5(3.5) = 17.5 \text{ kg m/s} \quad P_2 = 3(5) = 15 \text{ kg m/s}$$

$$V' = 4.2 \text{ m/s N. E.}$$



127.5°

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?

$$P_1 = 850000(-17.3 \cos 24) = -1470000 \text{ kg m/s}$$

$$V_{1x} = 17.3 \cos 24 = 16.15 \text{ m/s}$$

$$V_{1y} = 17.3 \sin 24 = 6.75 \text{ m/s}$$

$$P_1 = 1470000$$

$$V_{1x} = 16.15 \text{ m/s}$$

$$V_{1y} = 6.75 \text{ m/s}$$

$$V_{1x} = 16.15 \text{ m/s}$$

$$P_2 = 600000(-17.3 \cos 26) = -1038000 \text{ kg m/s}$$

$$V_{2x} = -17.3 \cos 26 = -15.75 \text{ m/s}$$



21.5 m/s

$$P_2 = 600000(-17.3 \cos 26) = -1038000 \text{ kg m/s}$$

$$V_{2x} = -15.75 \text{ m/s}$$



21.5 m/s

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