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[Tutorials In Introductory Physics Homework Solutions Conservation Of Momentum In One Dimension](#)

NL11

Q: WHEN TWO SOCCER BALLS COLLIDE, IS THIS AN ELASTIC COLLISION OR AN INELASTIC ONE? HOW ABOUT TWO BALLS OF CLAY? HOW ABOUT TWO BILLIARD BALLS?

HW 217  
+ SUMMARY SHEET

AGENDA

- LAB REVIEW
- VECTOR CONSERVATION OF  $\vec{p}$
- ELASTIC/INELASTIC COLLISIONS
- \* TEST TOPICS ON BOARD

REVIEW LAB

CONSERVATION OF  $\vec{P}_{TOTAL}$  ( $\vec{P}_{A_0} = \vec{P}_{A_1} + \vec{P}_{T_1} = \vec{P}_{A_2} + \vec{P}_{T_2}$ )

$\vec{d} = \vec{v} \Delta t$   $\vec{p} = m\vec{v} = \frac{m}{\Delta t} \vec{d}$   $\therefore \vec{p} \propto \vec{d}$  (BALLS HAVE EQUAL MASS)

ADDING VECTORS ANALYTICALLY (REFER TO ADDING VECTORS SHEET)

$$\vec{R}_{1,x} = \vec{A}_{1,x} + \vec{T}_{1,x} \quad \vec{R}_{1,y} = \vec{A}_{1,y} + \vec{T}_{1,y}$$

CAREFUL WITH SIGNS!

ALL POINTING IN SAME DIRECTION!

ARITHMETIC ADDITION OF MAGNITUDES

MAKES RESULTANT TOO LONG

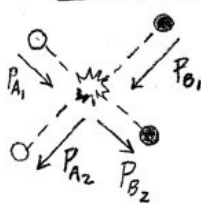
$\therefore \sum_{i=1}^n |\vec{P}_i|$  IS NOT CONSERVED! ( $\vec{P}_{TOTAL} = \sum_{i=1}^n \vec{P}_i$  IS CONSERVED)

- (AQ) SOCCER BALLS COLLIDE FAIRLY ELASTICALLY
- CLAY CAN HAVE PERFECTLY INELASTIC COLLISIONS
- BILLIARD BALL COLLISIONS ARE EXTREMELY ELASTIC

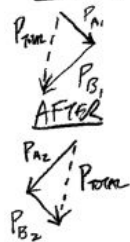
ELASTIC COLLISIONS - "BOUNCY" COLLISIONS WHERE LITTLE KE IS LOST  
 INELASTIC COLLISIONS - "STICKY" COLLISIONS WHERE LOTS OF KE CONVERTED TO HEAT

$\vec{P}_{TOTAL}$  IS ALWAYS CONSERVED FOR BOTH COLLISION TYPES!

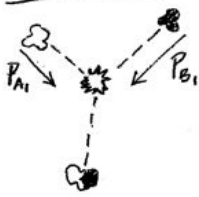
ELASTIC



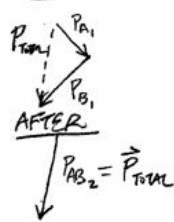
BEFORE



INELASTIC



BEFORE



ALL COLLISIONS ARE AT LEAST PARTLY INELASTIC (SOME KE CONVERTED TO HEAT)  
 SOME COLLISIONS CAN BE PERFECTLY INELASTIC (OBJECTS COMBINE)



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