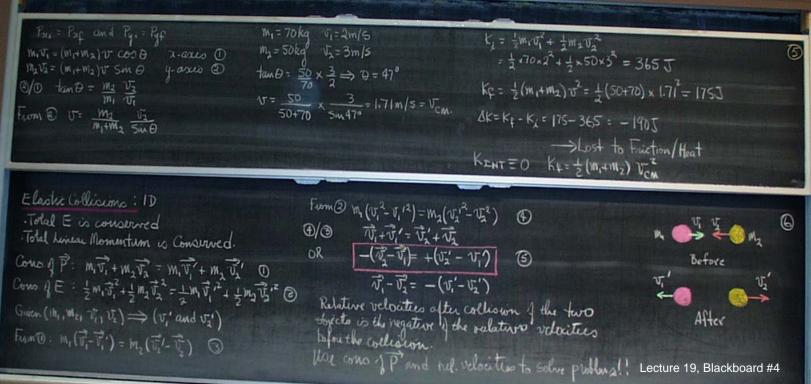
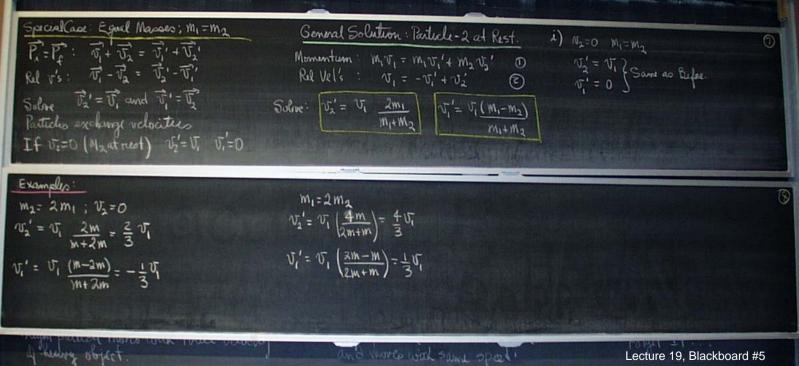


Lecture 19, Blackboard #3

KENTEO KE= = (111,411/2) VCM





Lecture 19, Blackboard #5

Example:  

$$m_2: 2m_1; V_2=0$$
  
 $v_2'=v_1 \frac{2m}{m+2m} = \frac{2}{3}v_1'$   
 $v_1'=v_1 \frac{(m-2m)}{m+2m} = -\frac{1}{3}v_1'$ 

$$V_{1}' = V_{1} \left( \frac{4m}{2m+m} \right) = \frac{4}{3}V_{1}$$

$$V_{1}' = V_{1} \left( \frac{2m-m}{2m+m} \right) = \frac{1}{3}V_{1}$$

is) \$2=0 M, >> M2

A heavy object stakes a light object at rest.

\$\frac{\tau\_1'}{2} = 2\text{V}\_1'

\text{N', '\alpha} \text{V}\_1'

Videaty of Incoming particle unchanged.

hight faction mores with toxice vilocity
of heavy object.

A moving light particle
studied stationary heavy
object vino
vin - V,
Heavy object stays at rest.
hight particle neverses direction

V2=0 m, << M2

 $V_{\lambda}' = V_{1} \left( \frac{2m_{1}}{m_{1} + m_{2}} \right) + V_{\lambda} \left( \frac{m_{2} - m_{1}}{m_{1} + m_{2}} \right)$   $V_{1}' = V_{1} \left( \frac{m_{1} - m_{2}}{m_{1} + m_{2}} \right) + V_{\lambda} \left( \frac{2m_{2}}{m_{1} + m_{2}} \right)$ 

General Solution

Lecture 19, Blackboard #6