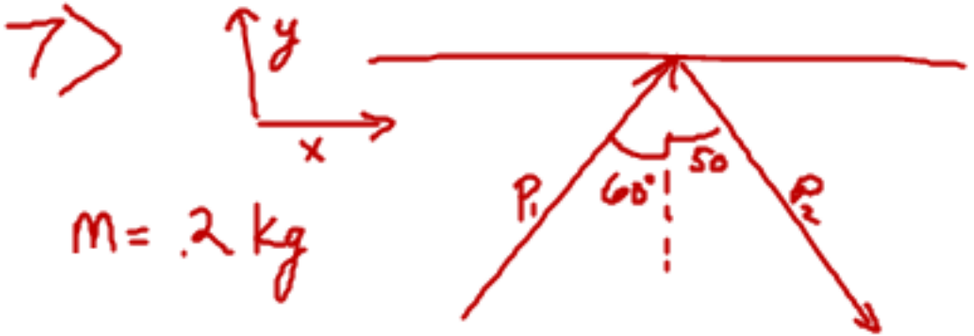
7>



$m = .2\ kg$

$V_1 = 15\ m/s$

$V_2 = 10\ m/s$

$P_1 = mV_1$

$P_2 = mV_2$

y]

$\Delta P_y = -P_2 \cos 50 - P_1 \sin 30$

$\Delta P_y = -(mV_2)\cos 50 - (mV_1)\sin 30$

$\Delta P_y = -(.2)(10)\cos 50 - (.2)(15)\sin 30$

$\Delta P_y = -2.79\ kgm/s$

x]

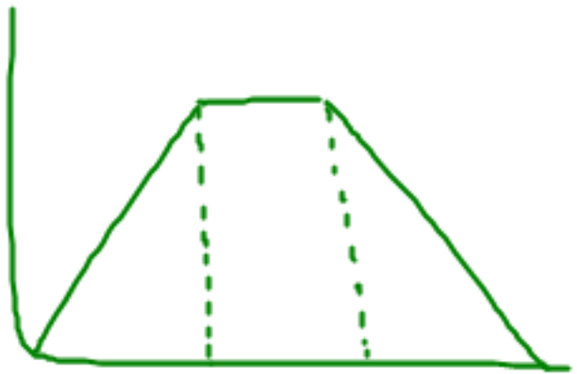
$\Delta P_x = P_2 \sin 50 - P_1 \cos 30$

$\Delta P_x = (.2)(10)\sin 50 - (.2)(15)\cos 30$

$\Delta P_x =$

$\Delta P_t =$

13)



b) area = Impulse = $Ft = \bar{F}t$

c) Impulse = change in Mom

$\Delta p = \Delta p$

$= m\Delta V$

$= m(V_f - V_i)$