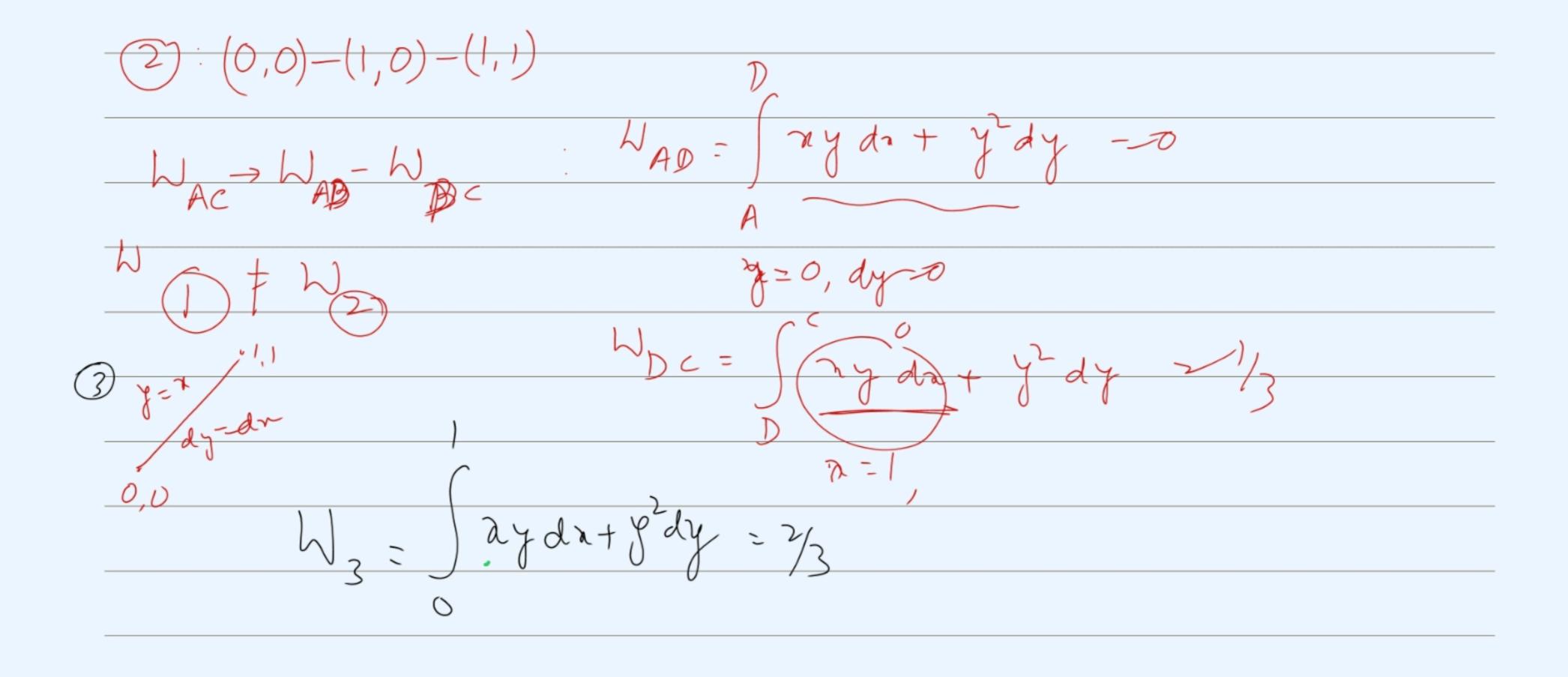
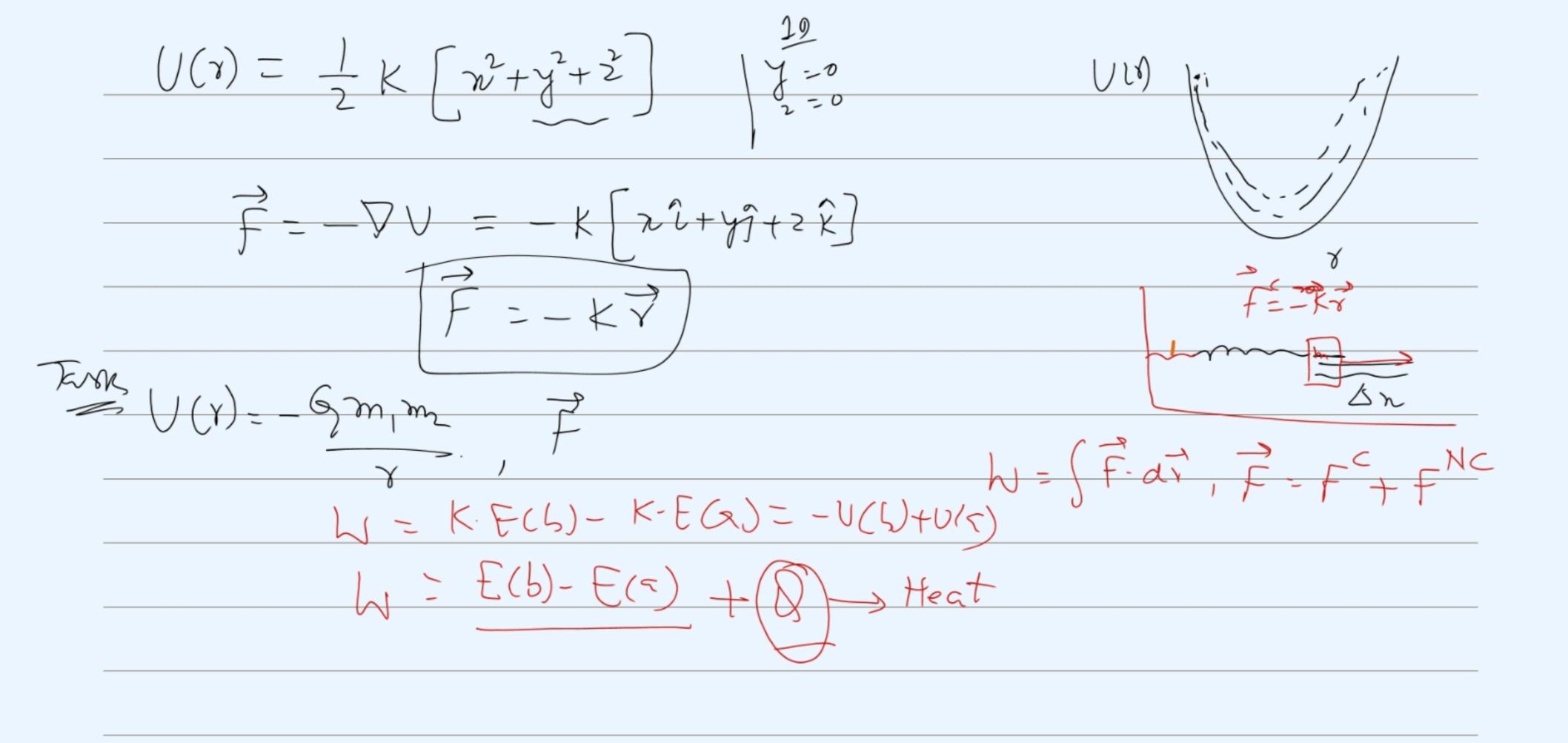


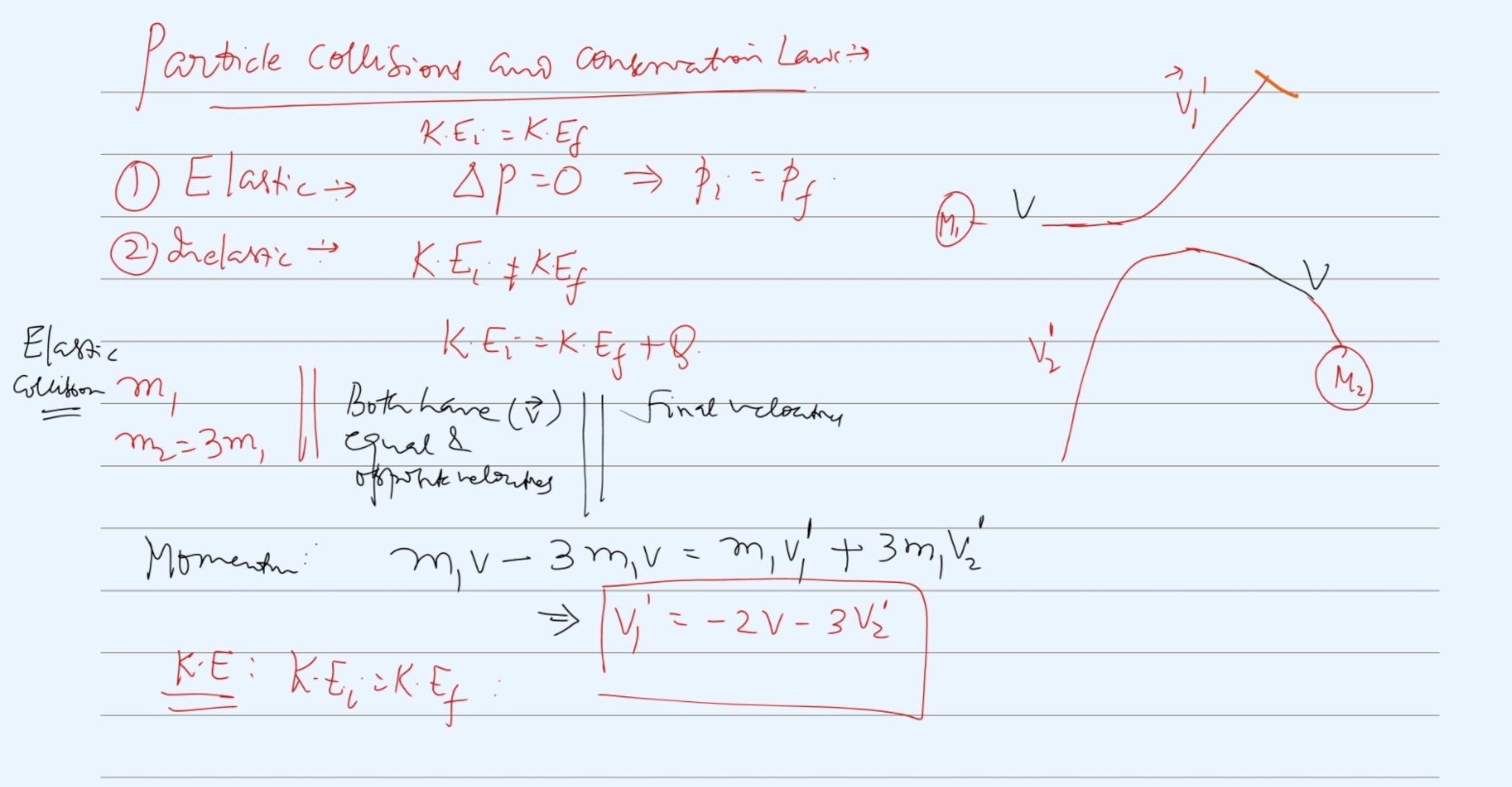
Central for  $\frac{f(8)8.d8}{(d8)^{6}+3000} = \int_{A}^{A} f(x) dx$ KN = K.E(b)-K.E(a) = - U(b) + U(a) = \( \int \) F. dy U(a) = - (F.d)



1 = 8 7 + rd 0 8 C'entral forces f(r)?. (dx 8+8d8 ê) Stoker Theorem

Conservative for is Path Independent





1 my v2 + frm, v2 = 2/my v12 + frm, v2 11 Vy = -2V-3V2  $4v^2 = V_1'^2 + 3V_2'^2$  $= [-2V - 3V_2] + 3V_2^2$ 4x2 = 4x2+9v2+ 12vv2 +3v2 12 [ V2 + VV2] = 0

Collisions and c. M. Cooshhuss

$$V = m_1 v_1 + m_2 v_2$$

$$\frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}} = \frac{1$$

Elastic Collision & C.M. fame of reference + mala = 0 => V1c= m => \frac{m\_1}{m\_1} \frac{m\_2}{ac} \frac{1}{2} \frac{1}  $\left[\begin{array}{c} m_1 + m_2 \\ m_1 \end{array}\right] \sqrt{\frac{2}{2}} = \left[\begin{array}{c} m_1 \\ m_2 \end{array}\right] \sqrt{\frac{2}{2}} = \left[\begin{array}{c} m_1 \\ m_2 \end{array}\right] \sqrt{\frac{2}{2}}$ 

Laboratory & C. M. framer Scattering Angle 4 Covelatoon Scattening aughe un l-fame & c. m. fame.