

$$V_i = 36 \text{ km/h}$$

$$V_f = ?$$

$$L = 53 \text{ J}$$

~~KEE~~

$$P = 10 \text{ N}$$

$$m = \frac{10 \text{ N}}{9,81 \text{ N/kg}}$$

$$L_{\text{TOT}} = \Delta K = \frac{1}{2} m V_f^2 - \frac{1}{2} m V_i^2$$

$$\frac{1}{2} m V_f^2 = \frac{1}{2} m V_i^2 + L$$

$$V_f = \sqrt{V_i^2 + \frac{2L}{m}}$$

FORZE CONSERVATIVE

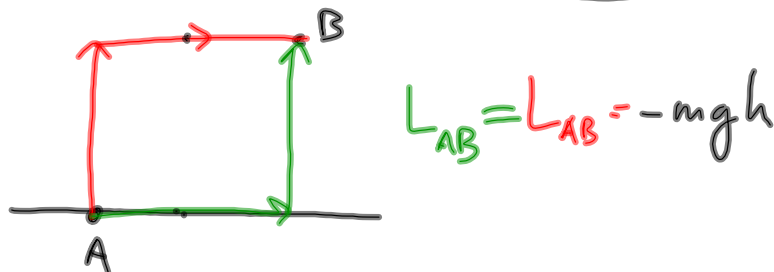
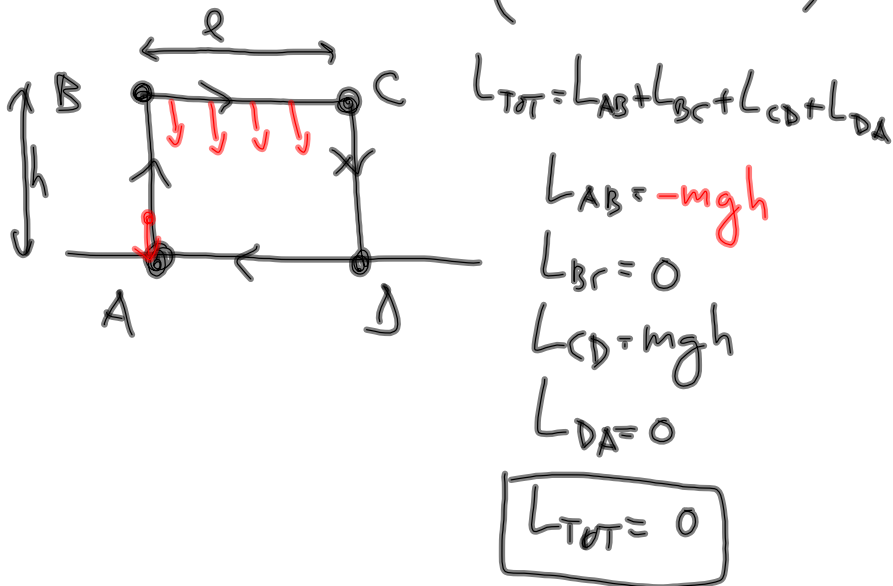
↓ DEF. 1

Il lavoro W_{TOTALE} COMPIUTO DALLA FORZA
E' ZERO SU UN PERCORSO CHIUSO

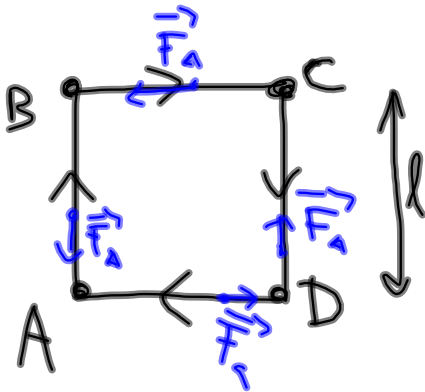
DEF. 2

Il Lavoro DALLA POSIZIONE A ALLA
POSIZIONE B NON DIPENDE DAL PERCORSO

CASO FORZA PESO (CONSERVATIVA)



Caso Attrito Dinamico (NON CONSERVATIVO)



$$L_{TOT} = L_{AB} + L_{BC} + L_{CD} + L_{DA}$$

$$L_{AB} = -F_a l$$

$$L_{BC} = -F_a l$$

$$L_{CD} = -F_a l$$

$$L_{DA} = -F_a l$$

$$L_{TOT} = -4 F_a l \neq 0$$

