Impulse
$$\int_{1}^{\infty} \dot{f} dt \cdot \Delta p$$

momentum, striem of particles

$$\vec{F} = \sum_{i=1}^{\infty} F_i$$
, $F_i = \log \alpha$ adving on $j^{(k)}$ partials

Resultant Force on Statem : Take of change of a titem mamerium

Kesullah Faka cu stipem in sam of (cult) estesum pasas

11 Fest - 0 than & pitt = 0 = p(1) - p(1)

Kinehe Energy K = 2 mm2 = 2 (m1)2 · m : P2

$$\nabla K = \frac{2}{1} m(A_5^{\dagger} - A_5^{\dagger}) = \frac{2}{1} m(A_5^{\dagger} + A_5^{\dagger} - A_5^{\dagger} - A_5^{\dagger})$$

New and to inlegate acceleration think of a as In of x, not t

COSK-KE Theorem

$$W = \int_{X_i} F_X dX = m \int_{X_i} G_X dX = \frac{1}{2} m \left(J_{X_i}^2 - J_{X_i}^2 \right)$$

D W = ΔK

Power is defined as P = dw F.V

Funil = N =
$$kg \frac{m}{s^2}$$
 \Rightarrow Punil is $7s^{-1}$