

Work + Energy

$$W = \vec{F}_{||} \Delta d$$

$$W = F \Delta d \cos \theta$$

$W =$ area under $F - d$ graph

$$E_k = \frac{1}{2} m v^2 \quad \left(\begin{array}{l} \text{Where } E_k \text{ is kinetic energy (J)} \\ m \text{ is the mass (kg)} \\ v \text{ is the velocity (m/s)} \end{array} \right)$$

$$W = \Delta E_k \quad (\text{work energy theorem})$$

You should have already done:

* PP in §6-1

* PP in §6-2

Assignment (due Mon) p 275/15-22