



















$$\vec{F} = (6\hat{i} - 5\hat{j} + 0\hat{h})N$$
  
$$\vec{S} = (3\hat{i} + 2\hat{j} + 6\hat{h})m$$
  
$$[8 - 10 \quad 0 = 85$$













$$\begin{array}{c}
\Delta \chi - \frac{1}{2}(v_{1} + v_{1})t\\
\Delta \chi - v_{2} + \frac{1}{2}t^{2}\\
\eta - v_{2} + 4t\\
\eta^{2} = v_{2}^{2} + 2a\Delta \chi
\end{array}$$

$$\begin{array}{c}
W = \overline{F} \cdot \overline{s}\\
= |\overline{F}| \cdot |\overline{s}| \cos\theta\\
W = \overline{F_{x}} \Delta x + \overline{F_{y}} \Delta y + \overline{F_{y}} \Delta z\\
\end{array}$$

$$\begin{array}{c}
W = \overline{F_{x}} \Delta x + \overline{F_{y}} \Delta y + \overline{F_{y}} \Delta z\\
\end{array}$$

$$\begin{array}{c}
\Delta \chi = W_{TATE}\\
-\frac{1}{2}mv_{e}^{2} - \frac{1}{2}mv_{i}^{2} = W_{TATE}
\end{array}$$















## The many ways to calculate Work W = Fs $W = Fs \cos\theta$ W = F (s in the direction of F) W = (F in the direction of s) s $W = F_x \Delta x + F_y \Delta y + F_z \Delta z$ $W = \int Fdx$





 $-6\chi^2$ Work done from X=0 to X=1. M= /fxgx  $= \int (6x^2) dx$  $\begin{bmatrix} 6x^3 \\ -3 \end{bmatrix}_{n=1}^{l} = \begin{bmatrix} 2x^3 \end{bmatrix}_{0}^{l}$ - $= \left[ 2(1)^{3} - 2(0)^{3} \right]$ 





Cycle 10



