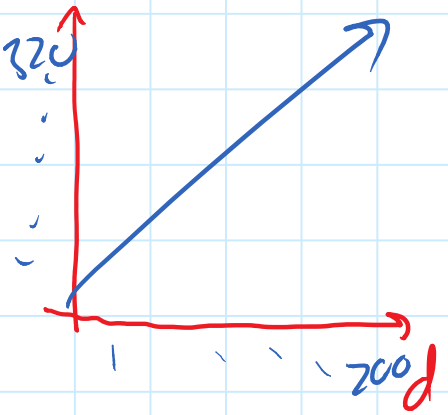
~~#8~~) F



$m = 24\,kg$

$W = Fd\cos\theta \leftarrow$
$= \text{Area under Curve}$
$= \Delta E$

$V_f = ?$

$W = A_\Delta = \frac{bh}{2}$

$= \frac{200(320)}{2}$

$= 32\,kJ$

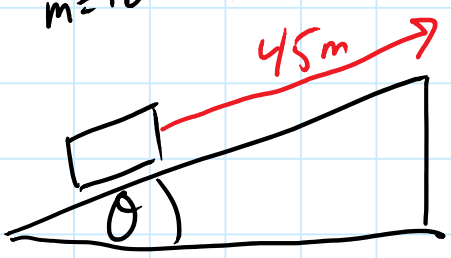
$\Delta E = \frac{m(v_f - v_i)^2}{2} = \frac{24}{2}(v_f)^2$ $= \Delta E$

$\pm\sqrt{\frac{32\,kJ}{12}} = v_f$

$51.6\,\frac{m}{s} =$

$\theta = 3^\circ \quad \mu = 0$

$m = 1000\,kg$



$d_x = 45\cos(3) = 44.9\,m$

$d_y = 2.36\,m$

$W = \Delta E = mgh$

$= (1000)(9.8)(2.36)$

$= 23\,kJ$

What if $\mu = .30$

$F_f = \mu F_n$

$= .3(m g \cos\theta)$

$= .3(1000)(9.8)\cos(3)$

$= 2900\,N$

$W = 2900(44.9)$

$= 130\,kJ$

$W_{net} = W_1 + W_2$

$= 23\,kJ + 130\,kJ$

$= 153\,kJ$

1) I didn't know the booklet was important

2) Notes/ yours/mine

3) Review notes