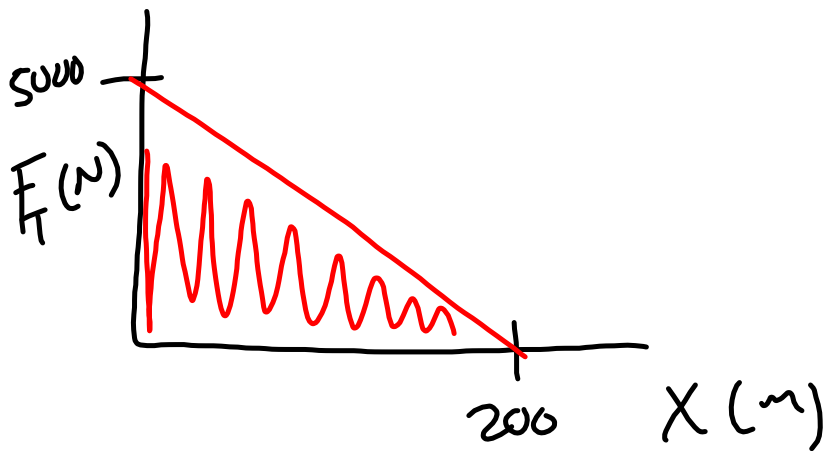


Zero-Work Situations

- Force and displacement vectors are perpendicular
- No displacement
- Net force of \emptyset



$W = \text{area between function and } x\text{-axis}$

$$W = \frac{1}{2} F x = \frac{1}{2} (5000 \text{ N})(200 \text{ m})$$

$$= 500,000 \text{ J}$$

Lab

- Determine the coefficient of friction bet. block and ramp by pulling horizontally and "springing" at incline.
- Calculate both and compare.
- Whiteboard:
 - Calculations
 - FBD (if you want to draw)

Ch. 6 #29 \rightarrow 66 J