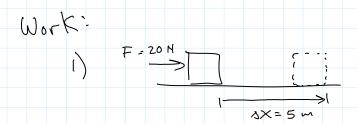
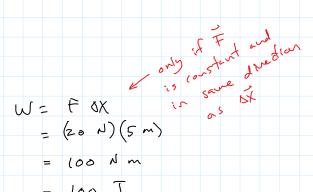
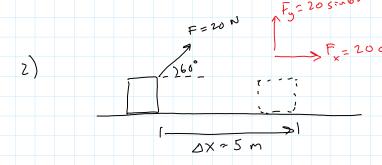
Goals for the Lecture:

- 1) Be able to calculate work done by constant forces
- 2) Be able to calculate the scalar product (dot product) of two vectors
- 3) Understand how defining your system can affect the work done on the system or by the system



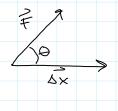


= 100 J



= 50 J





$$F = 20 N$$

$$AX = 5 m$$

$$W = \overrightarrow{+} \cdot \overrightarrow{\delta \times}$$

$$= |\overrightarrow{+}| |\overrightarrow{\delta \times}| \cdot \cos \theta$$

$$= |\overrightarrow{*}| |\overrightarrow{\delta \times}| \cdot \cos \theta$$

$$= (20 N) (5m) (-1)$$

$$= -100 J$$

3)

