## Work by Constant Force

• Example: You pull a 30 N chest 5 meters across the floor at a constant speed by applying a force of 50 N at an angle of 30 degrees. How much work is done by the 50 N force?

```
W = F \Delta x \cos \theta
= (50 N) (5 m) cos (30)
= 217 Joules
```



