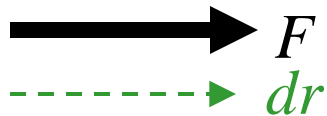


Work (Mechanics Review)

Recall from physics 211:

$$W = \int_{\vec{r}_1}^{\vec{r}_2} \vec{F} \cdot d\vec{r} \quad W_{TOT} = \Delta K$$

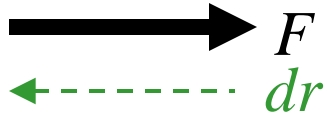


$$W > 0$$

(e.g. W_{gravity} on object dropped)

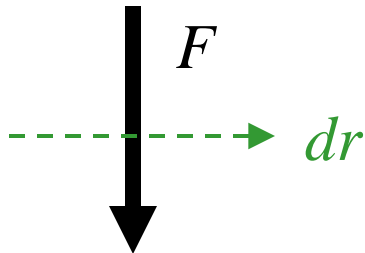


or



$$W < 0$$

(e.g. W_{gravity} on ball going up)



$$W = 0$$

(e.g. W_{gravity} on moving horizontally)