

WORK DONE DOES NOT
Depend on path taken

$$\text{Power} = \frac{\text{WORK}}{\text{time}}$$

Power does Depend on PATH
TAKEN, Because each path
Requires A Different amount of
Time

$$WORK = F \cdot d$$

$$\text{Weight} = 5N$$

$$\text{"y" distance} = 10m$$

$$WORK = (5N)(10m) = 50J$$

$$\text{Power} = \frac{WORK}{time}$$

STAIRS 40 sec

RAMP 90 sec

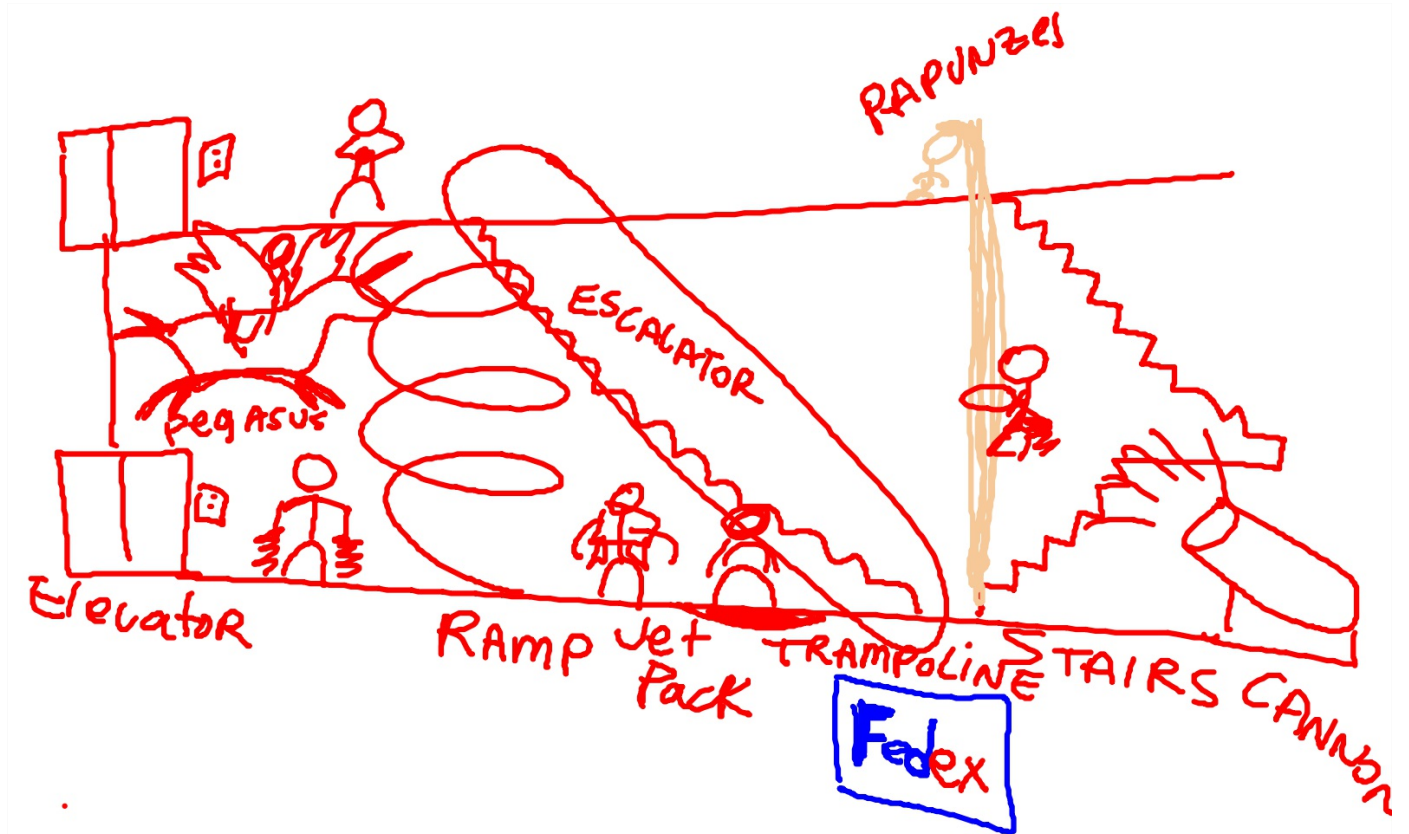
escalator 10 sec

Jesus .05 sec

DRAGON 30 sec

LADDER 20 sec

1000 WATTS



WORK = $F \parallel d$
Weight = $5\text{ N} \downarrow$
FORCE = $5\text{ N} \uparrow$
"y" distance = $10\text{ m} \uparrow$

$$\text{WORK} = (5\text{ N})(10\text{ m}) = 50\text{ J}$$

IS the same
FOR ALL

$$P = \frac{\text{WORK}}{t}$$

CANNON	1 s
Fedex	43200 s
Jumped	30 s
JETPACK	2 s
Rapunzel	150 s
Pegasus	300 s