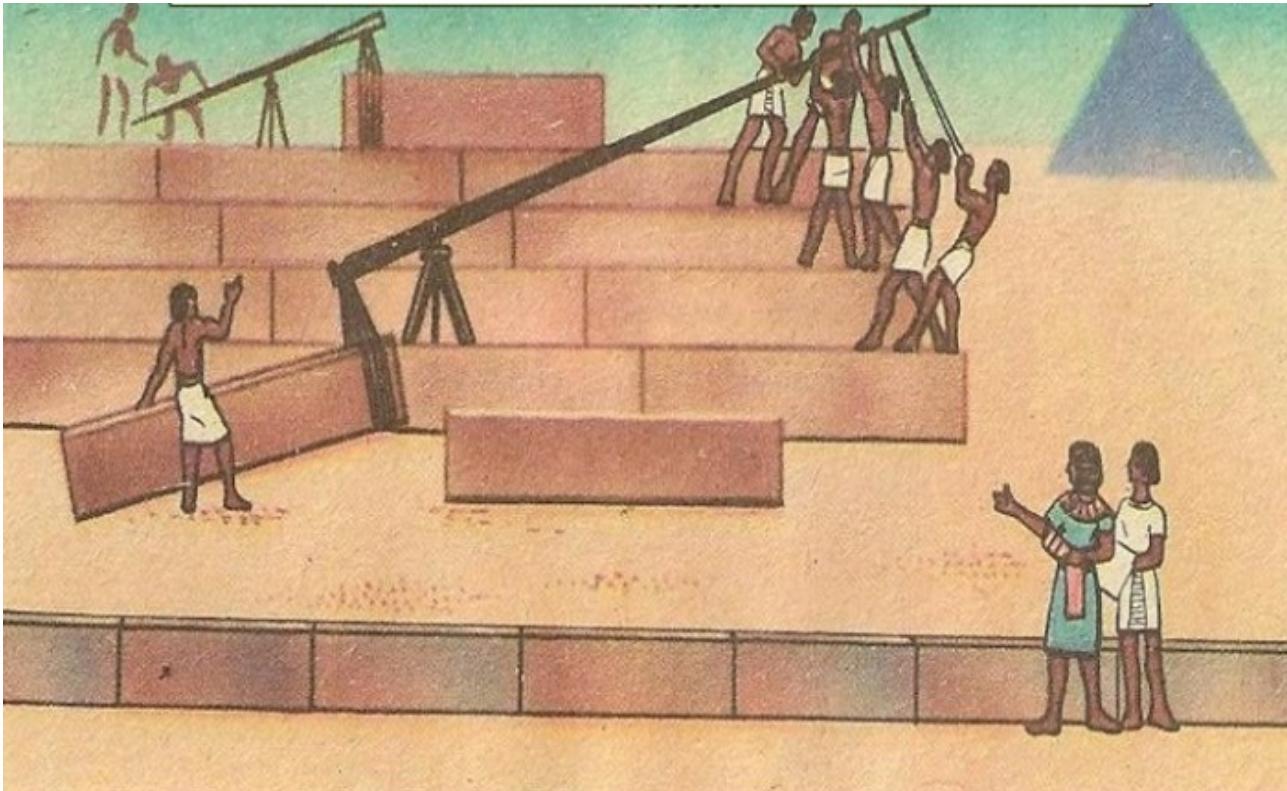


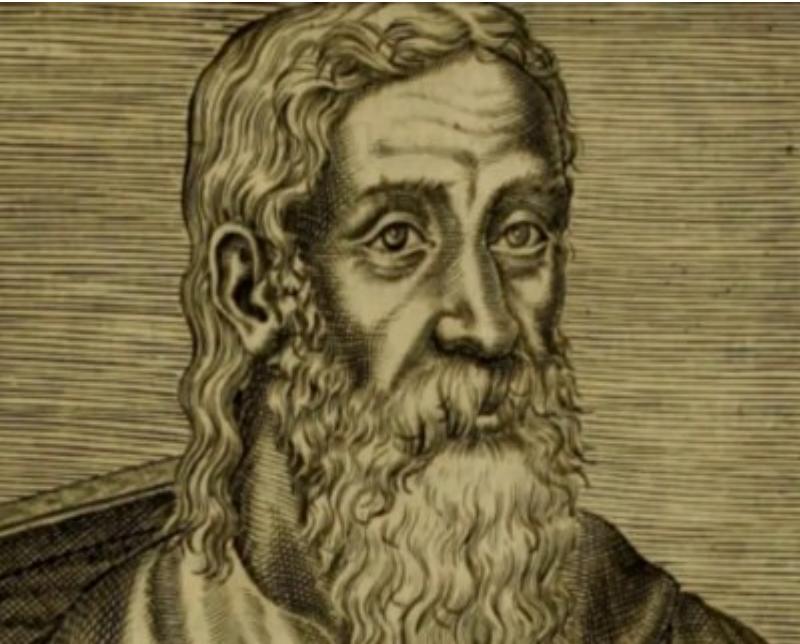


# Золотое правило механики для простых механизмов

Выполнил:  
студент 151 группы факультета КНИИТ  
Мартиросян Артём



# Герон и его трактат «Механика»





Общий вид математического выражения «золотого правила механики»:

$$F_1 \cdot S_1 = F_2 \cdot S_2$$

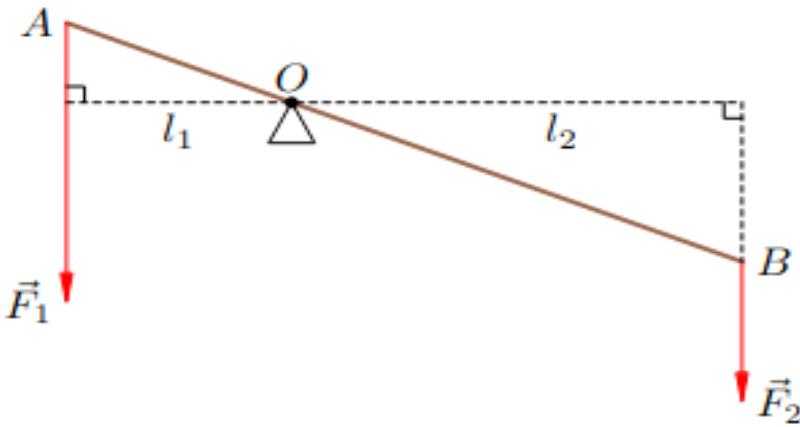
Коэффициент полезного действия (КПД) механизма:

$$\eta = \frac{A_1}{A_2}$$

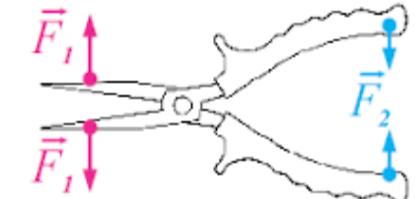
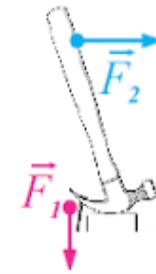
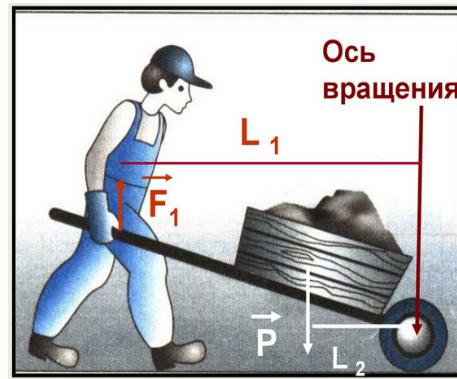
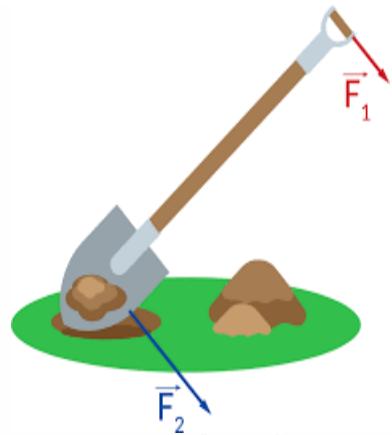
# Простейшие механизмы



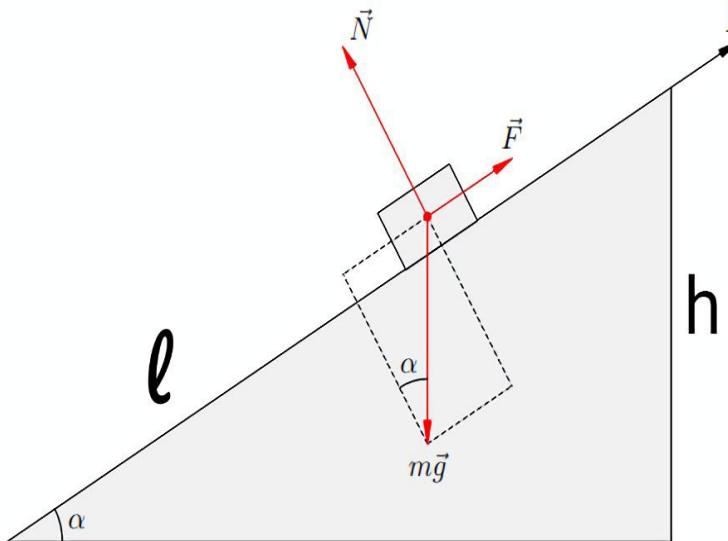
# Рычаг



$$\frac{F_1}{F_2} = \frac{l_2}{l_1}$$



# Наклонная плоскость



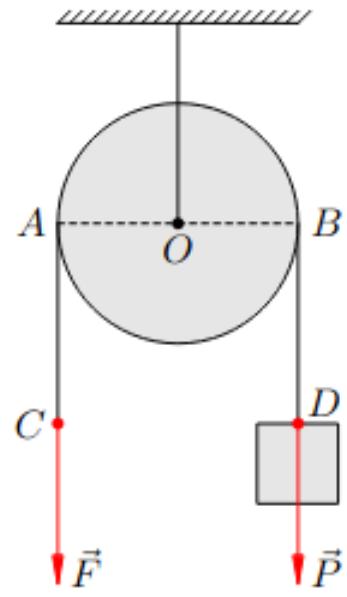
$$m \cdot \vec{g} + \vec{N} + \vec{F} = \vec{0}$$



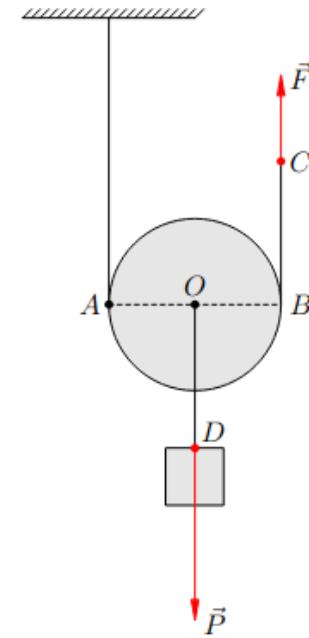
$$\frac{F}{m \cdot g} = \frac{h}{l}$$



# БЛОКИ

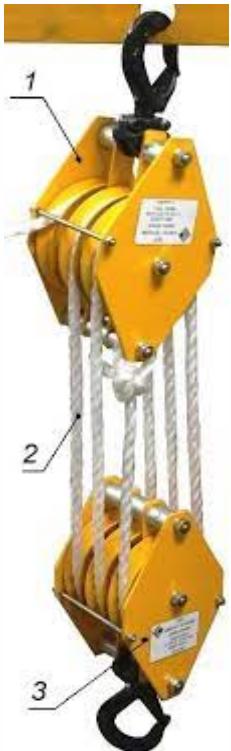


$$OA = OB = r$$

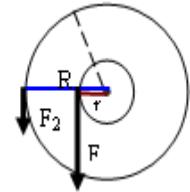
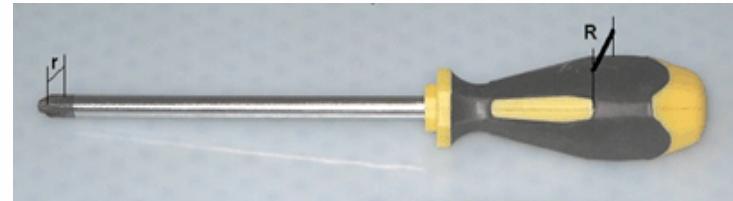
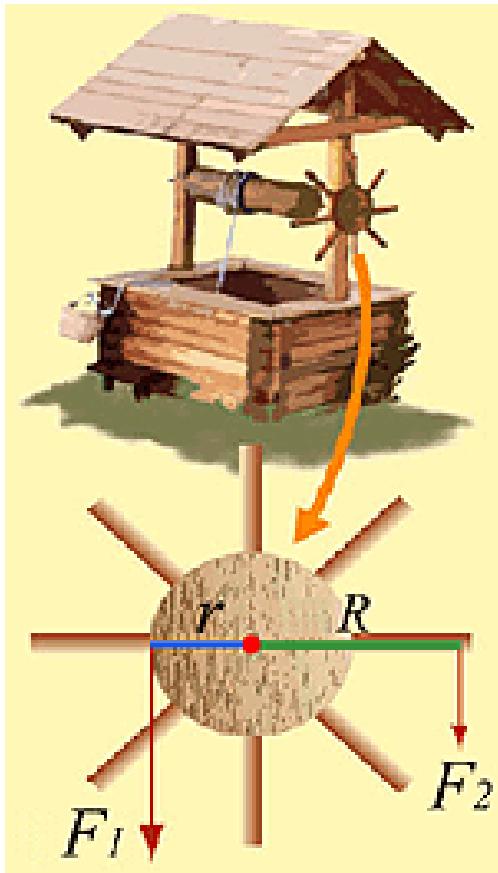


$$OA = r, AB = d$$

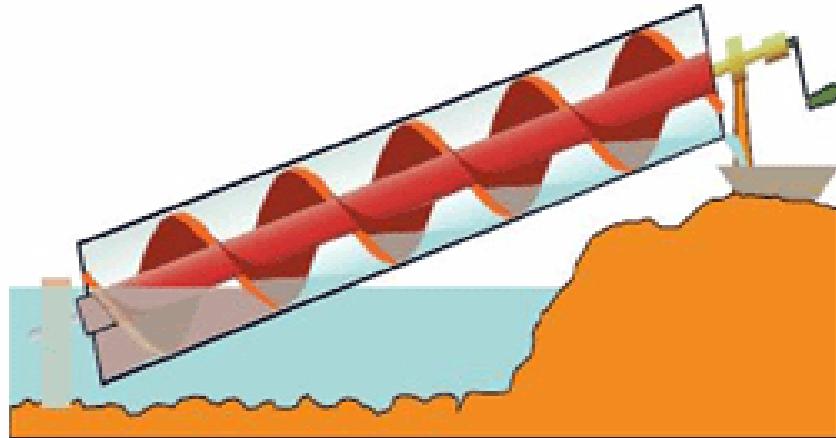
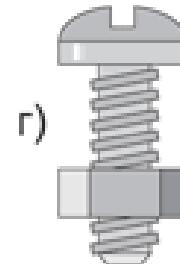
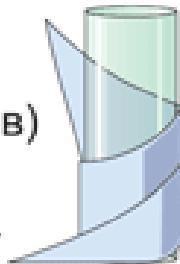
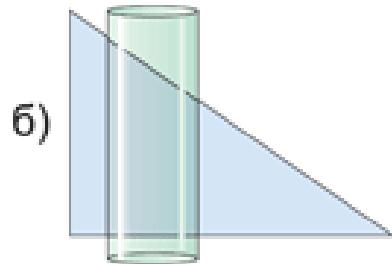
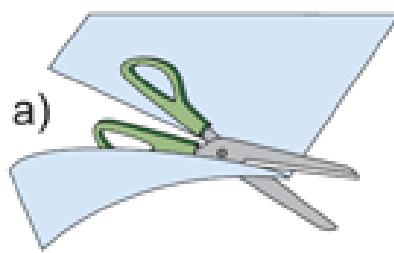
# Система блоков



# Bopot



# Винт







Спасибо за внимание