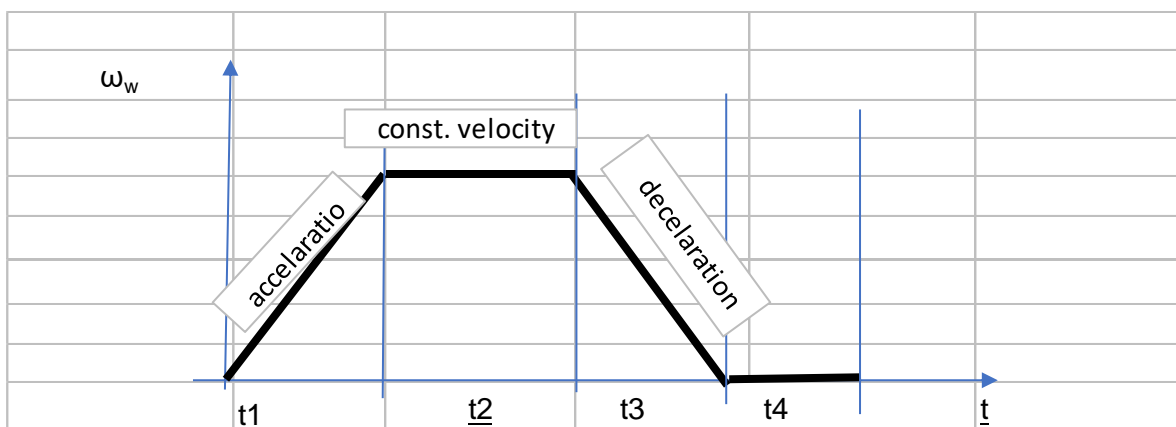
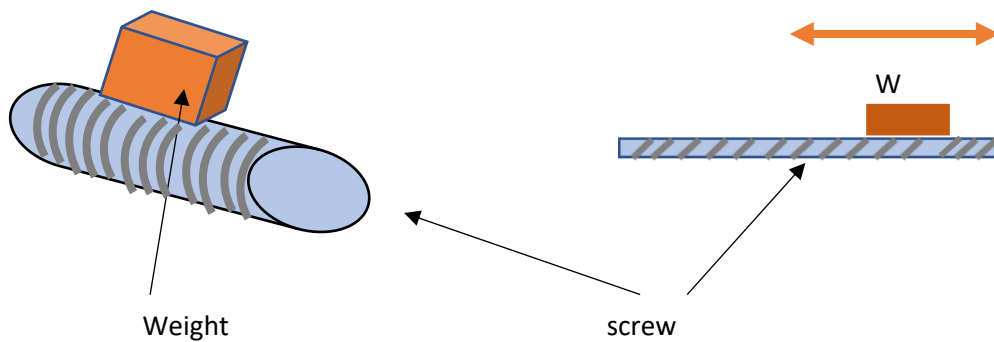


The orange part don't rotate around the screw .
it's moved only at axis X . The screw attracts and reject it
How do I calculate the moment inertia .when the system is
this (#1) ?

[view detail in the second page](#)

2



| data | | | |
|------------------|---------------|-------------|-------------------------|
| Measure | value | mark | meaning |
| <u>mtr</u> | <u>0.2</u> | s | <u>linear distance</u> |
| <u>sec</u> | <u>8</u> | t | total time |
| <u>sec</u> | <u>2.6667</u> | t_1 | accelaration time |
| <u>sec</u> | <u>2.6667</u> | t_2 | decelaration time |
| <u>sec</u> | <u>2.6667</u> | t_3 | const . Time |
| <u>sec</u> | 0.5 | t_4 | idel time |
| <u>Kg</u> | <u>5.3</u> | m | weight |
| <u>rev/min</u> | 1000 | ω_w | angular velocity |
| <u>---</u> | <u>3.1416</u> | pi | pi |
| Kgm ² | 1.40E-07 | J_{scr} | screw inertia |
| η_{sc} | 0.83 | η_{sc} | lead screw efficiency |
| | 0.15 | μ | coefficient of friccion |
| ° | 0 | θ | load arientation |