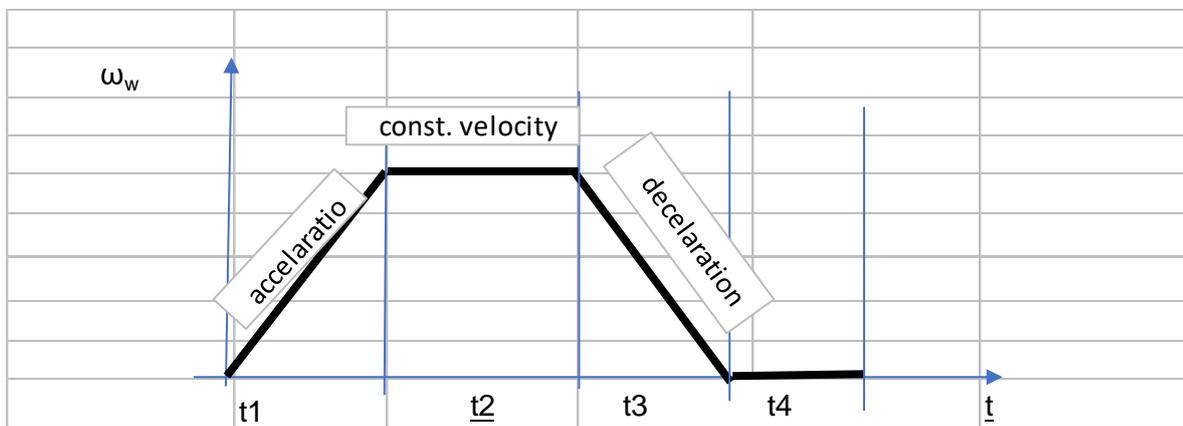
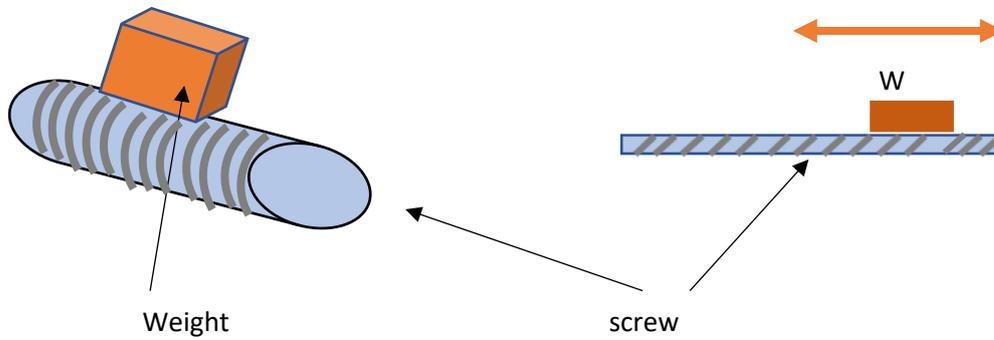


The orange part don't rotate around the screw .
it's moved only at axis X . The screw attracts and reject it
How do I calculate the moment inertia .when the system is this (#1) ?

[view detail in the second page](#)

2



data			
<u>Measure</u>	<u>value</u>	<u>mark</u>	<u>meaning</u>
<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
<u>Kgm²</u>	1.40E-07	J _{scr}	screw inertia
<u>מ'רורא</u>	0.83	η_{sc}	lead screw efficiency
	0.15	μ	coefficient of friccion
<u>°</u>	0	θ	load arientation