## Assignment - 2b

### Intro to Robolius CHELLA THIYAGARAJAN

#### MEITB179

### Conditions

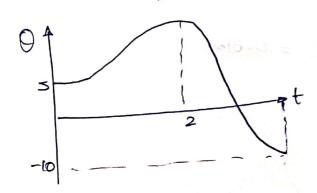
$$\theta_2(2) = \theta_g \rightarrow \Phi$$

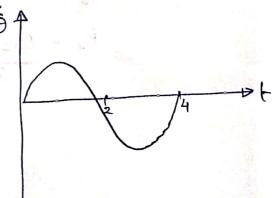
$$\dot{Q}_{2}(0) = \ddot{Q}_{1}(2) \longrightarrow \boxed{5}$$

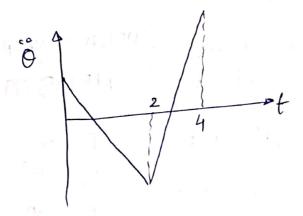
$$\tilde{\theta}_{2}(0) = \tilde{\theta}_{1}(2) - \tilde{\theta}_{0}(2)$$

# By solving we get Coffeients

$$a_{13} = -3.9$$







$$f_1 = 2 - \sqrt{2^2 - 2(10)} = 0.085 \text{ m}$$

$$\frac{\hat{\theta}_{12}}{\int_{0.2}^{\infty} - \frac{\theta_{12}}{\int_{0.2}^{\infty} -$$

final segment  

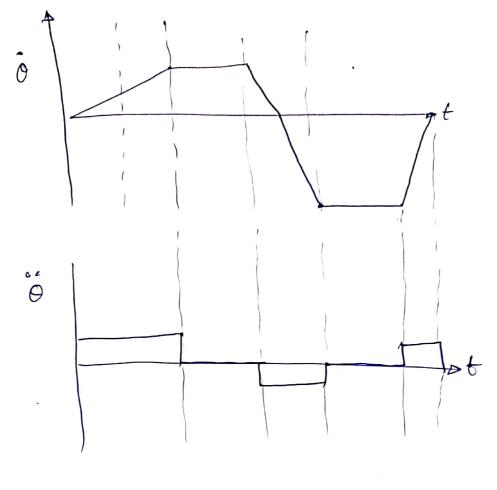
$$\hat{Q}_3 = +60$$

$$t_3 = t_{d23} - t_{d23}^2 - \frac{2(0_2 - 0_3)}{\hat{O}_3} = 0.528 \text{ m}$$

$$\hat{\theta}_{23} = \frac{\theta_3 - \theta_2}{4\theta_{20} - \frac{t_3}{2}} = -31.68 dy / Rec$$

$$f_2 = \frac{\hat{O}_{23} - \hat{O}_{12}}{\hat{O}_{2}} = 0.61 \text{ gr}$$

θ12, θ23, t1, t2, t3 =? 2 segment linear Spline with Parabolic blends 02 = 15 03 = 40°  $\int_{\text{all}}^{60} = 60$ td12 = fd23 = 2801 02 t23



3.) 
$$q_1 = 5^{\circ}$$
  $q_2 = 80^{\circ}$   
 $t_b = \frac{4}{2} - \sqrt{4 - \frac{80+5}{6}}$   $t_b = 2 - \sqrt{4 - 85/6}$ 

