## ROTATION

$$d: 5t^3 - 4t$$

$$W_0 = 5 \text{ rad } s^{-1}$$

$$\Theta_0 = 2 \text{ rad}$$

a) 
$$\int_{0}^{t} d\omega : \int_{0}^{t} x dt$$
  
 $w|_{0}^{t} : \int_{0}^{t} x dt dt$   
 $w(t) - w(0) : \frac{5}{4}t^{4} - 2t^{2}|_{0}^{t}$ 

$$\omega(t) - 5 = \frac{5}{4}t^4 - 2t^2$$
  
 $\omega(t) = \frac{5}{4}t^4 - 2t^2 + 5$