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	Exp 1 - ME 310
A-1	Simple Code in MATLAB (Alzeady shown)
A-2	m = last digit of roll +1
	= 8 + 1 = 9 Kg 8 = 0.7
<u> </u>	$J = m x^2 = 9 \times 6.7^2 \approx 2.2$
	εη ⁰ = 7 = 7 = 7 = 7 i°]
E-4	Block diagram
	13 1/8 1/8 7 D
	Integrator block sope
P-4	Put I as step input a in above block diagram using sources library
	1. Plat 0 to
	3 5
	1 2 3 4 (3) t

y = Asin(wt) where w = sum of digit and A = 0.1 Again same blæk diagram, just seplace I with this input. (vad) linear curve imposed with sine curve. After 272 ratarian, it will repeat itself. From above groph, it can be interpreted that linear rotation of curve is superimposed by sine curve with a particular frequency impacting it. Egn of yorque used: where Odes = 120° y = J 0 = Kp (0de-0) - Kd 0

Ang 7 For value of Kp = 100 & Kp = 20 We got the plat 2n 2120° The curve got settled. 2 3 time [87802 = Opes - Q 50ros time Jorque curve = Kp(Opg-0)-Kpô C Raugh Spetch) time

