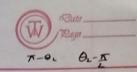
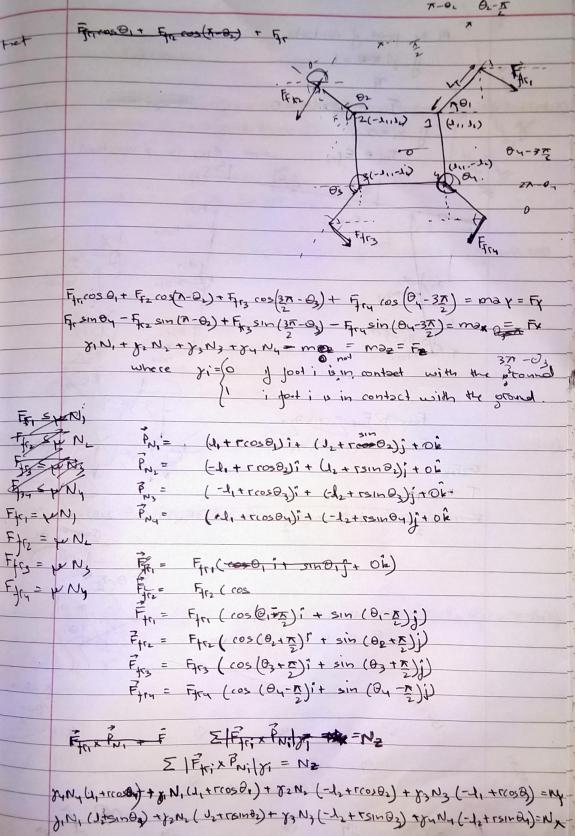
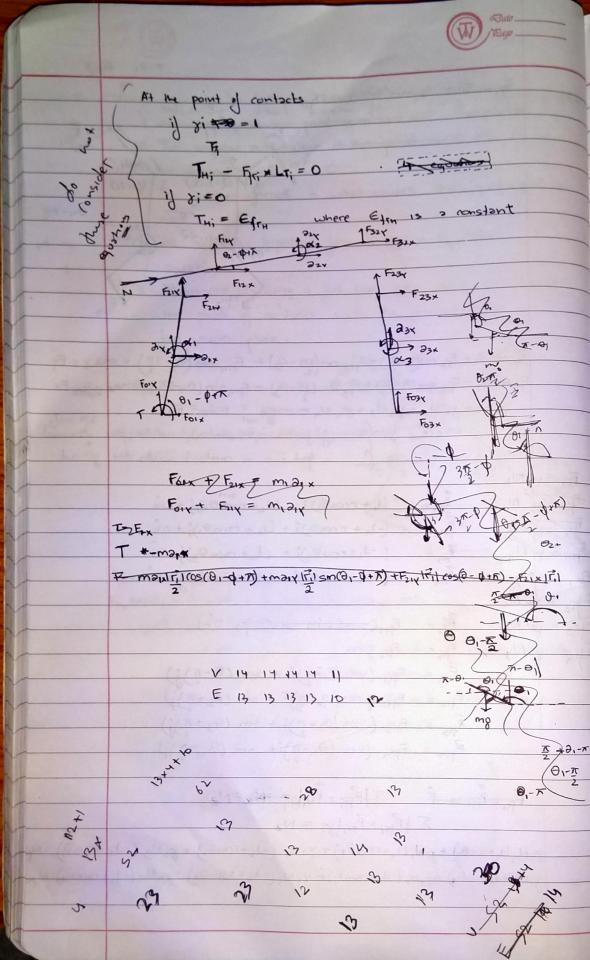
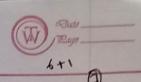


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7	When marino the following assumptions are me 1. Assuming that Principle Jackson sching the slipping of the point of contact with	est point of ar
	* No slipping of the point of contact with	the pround
	2. The angular acceleration at the joints is	6 2)
	the driving joints is 0	andruped to
	3. The friction forces is what causes the	- House
	Move	, XX
	4. All equations together form a system of	llyest
	equations.	-40
	5. Movement is along a list plan even plan the point of contacts with the ground	te or at least
	the point of contacts with the around	prm
	flat even plane.	
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1	F1-1030, + F1-2030, + F1-1030, - may 02	6//////////////////////////////////////
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6+1 3 F Foix + Frix = MIDIN Fory + Fary = MIDIY T- max 171 cos (0, \$+ A) +maix 171 sm (0, \$TA) + Bix titros(0, \$+A) - Fax 18,1 Sm(0, \$tA) + mosin 10 1 514 (0, - 1) = Id, Frex + Frex + Nous (Q - +T) = max P+ Foix 12 2 sin (8,- 0+ 1) - Eix 12 sin (8,- 0+ 1) - Foix 20s (0,- 0+ 1) + Fix 12 cos 6,- 0+ 1) = Ix, FOIX + FIX - mg cos (20 -0) = MIDIX Fory + 12 14 - mo 31 m (3/1) Forx + Fix - mo cos (4-32) = m, 21x Ext + Ext - me sin (4-35) - misik # Fizx sin (0,-0+1) 13) - F32x 13 sin (0-0+7) - F12Y 13 1 cos (0,-0+7) - E1Y131 cos (0,-0+7) = J2 X2 Fizx + F32x + Ncos (0,-0+x) - mo cos (0-37) = m23x F12y + F32y + NBOB (0, -0+7) - m, OSIN (0-37) = m, 22y Fox sin(B3- 0+ A) 17.1 - F2x 17.1 sin(B3- 0+ A) - Fox 17.1 cos(B3- 0+ A)+ F3x 17.1 cos(B3- 0+ A) = I3d3

Fox + Fox - mo cos (d-3x) = m3 32x

Fory + F234 -m30 cos(d-31) = m3 234

F23x=1-F32x F23Y=-F32Y

FO FIZX = - FUX FIZY = - FUY