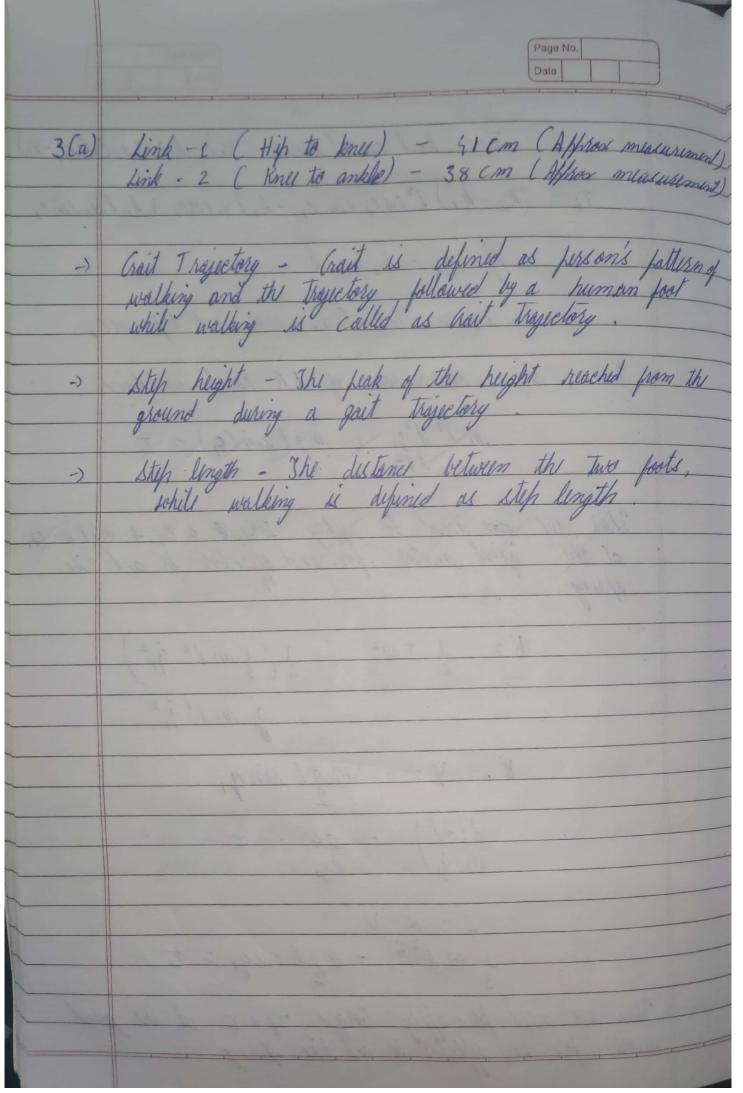
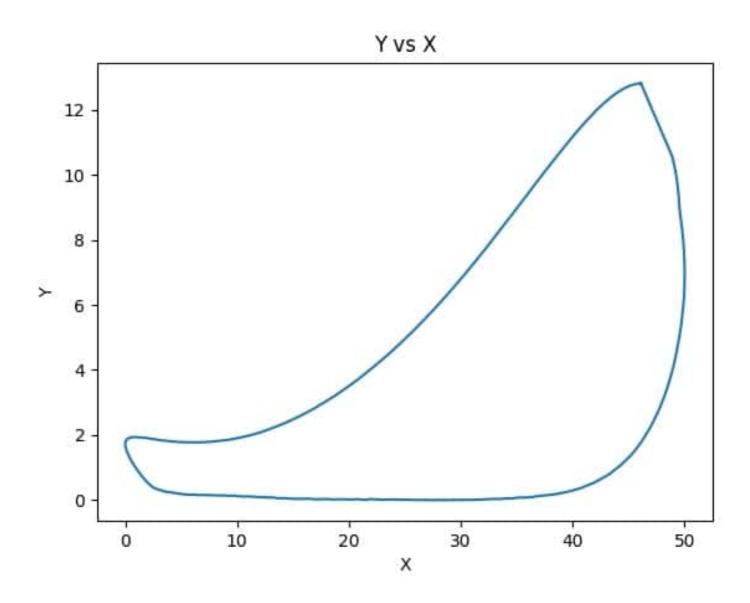
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	The world the same of the same
61(d)	
	/ B TC /
	The state of the s
	We need to more the end effector along
	We need to more the end effector along the path A-B-C-D with a constant velocity of o. o. o.
	STATE THE PARTY OF
	As for each straight line motion, the velocity
	murio of the end yellor is given as
	A-B -> V = [0]
	7-8 -> -0.01
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	The state of the s
	B-C -> V = -0.01
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	C-D -> V = 0.01
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the south to make the contract of the	
- De we have the desired values of the joint point pour can calculate the stan describe sacrobian for the given Robot.	lacameter,
- we can culculate the top deliced sacchion	matrix
- Ne Car Corner Art more account of	THE TOTAL STREET
- for an given hover.	
Thus, so we will have	
X = Jg	
Al but band i I I will can I alice las	
joint angle velocitées à by taking policie un	.0111 1
- John angu verocius y my laking pseuso uni	9/10/
$q = J^{-1}X$	
10-5-1 10-5-1 10-5-1	
- Three though the cartesian nelocity is constant a	long
- any one line of the bath the reint relative to	ald all
must near the be constant. This is because at every	instart
along the line the joint angles are parameters of	11
along the line the joint angles are parameters as	uluin
changes along the motion). Thus the se	CHURN-
There were the state of	
As x = constant, x = Mariable is constant	17
As $\dot{x} = constant$, $J = Nariable$, \dot{q} cannot be cons	tant
Saannad by Cam	

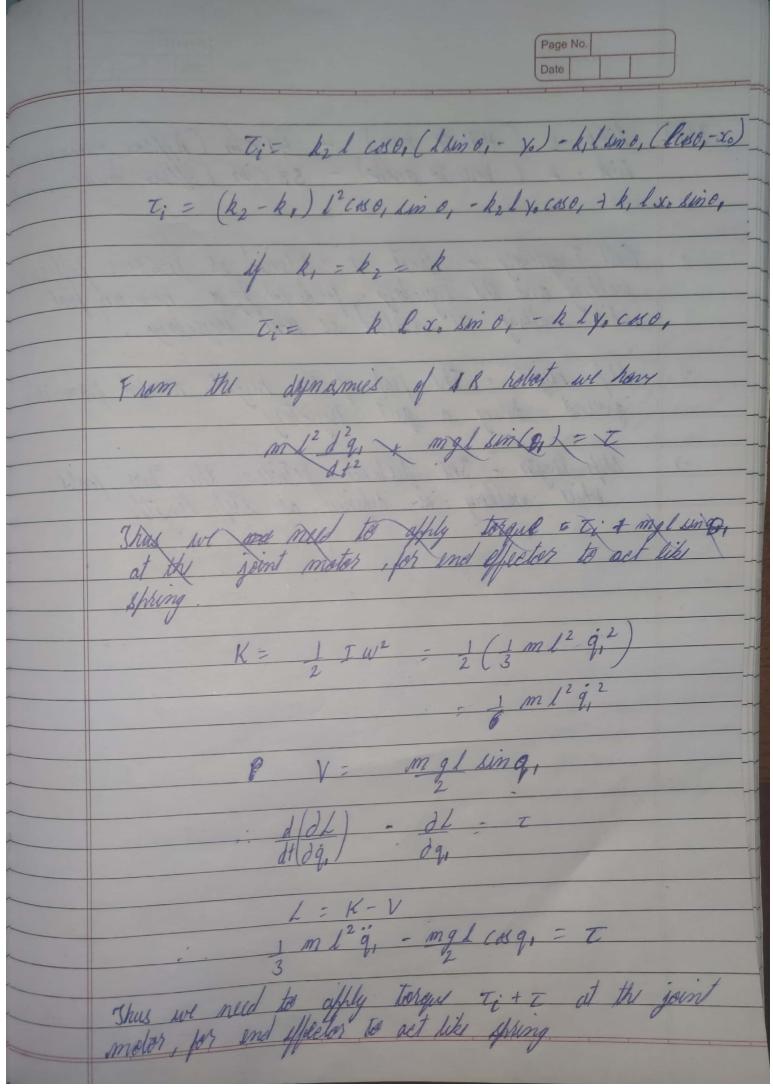
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- Cof	Wrist o.os B
	For the given grafter robot we need that the Tool paint is perfendicular to the surface of the Testing material.
	Thus to calculate joint parameters, we can assume a pseudo end effector E' such that more the required position is [faint P + [0,0,0.05]
	be for Bry Point on Surface
-	

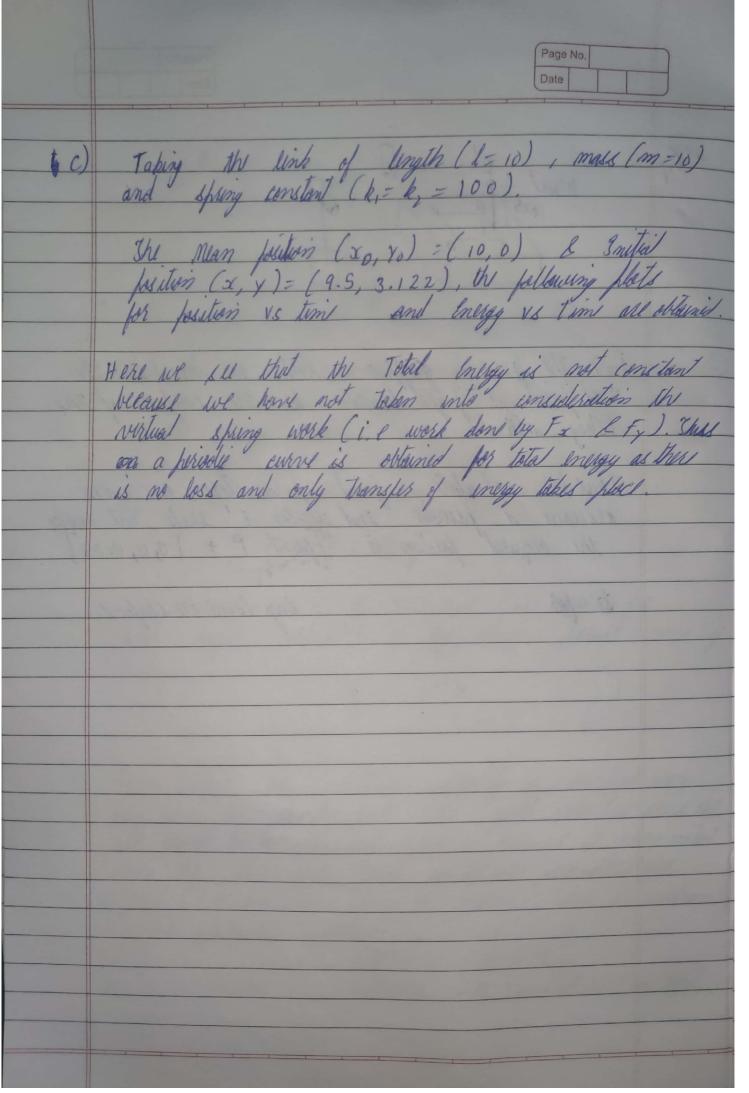
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	imali
a	Scearding to me a for as hill breken oberation, a
	compliant I dolt gripper will be more suitable. Considering
	the dimensione of the pill (10 x 20 mm opproace) as well
	The size of small cup, it is difficult to develop a
	hard gripper of such miniature size, also ensuring
	that only a single hill is picked at a time of sport
	from that considering the softness of the pill, force
	consideration is another challenge in developing hard
	griphers whereas with soft grippers to its easily
	to role a tail/finger around the full and
/\	1 1
()	Sold Kololie writhers can easily grup of sold and
	curved objects, which can be vest used as pur pouring -
	operation.
	a: interestina
- 7	Origami inspired robots is an another interesting
	Contest which can to the small size it can
	pull pressing grand cuts and also ensure that single
	Origami inspired robots is an another interesting concept which can be used to develop gripper for hill picking operation. One to its small size, it can enter enter small cups and also ensure that single hill is picked at a time, cook because of its folding
	mehonism.
	Ja way way was a second of the
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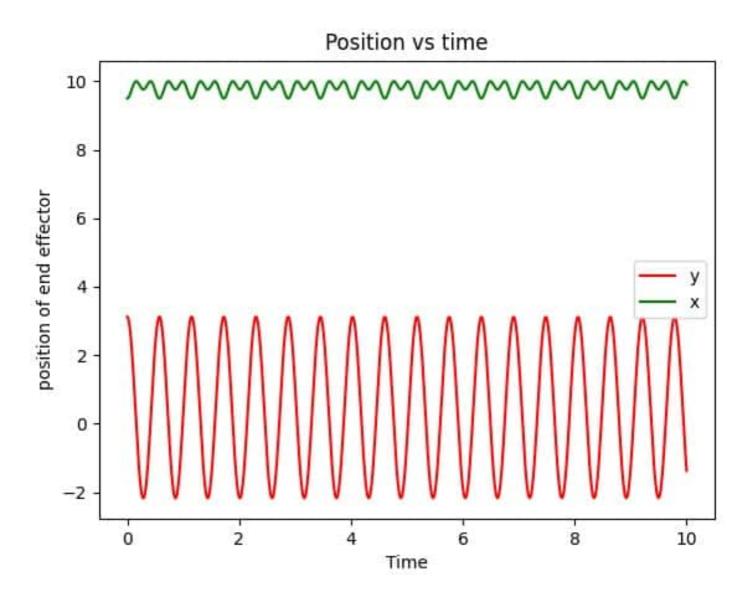


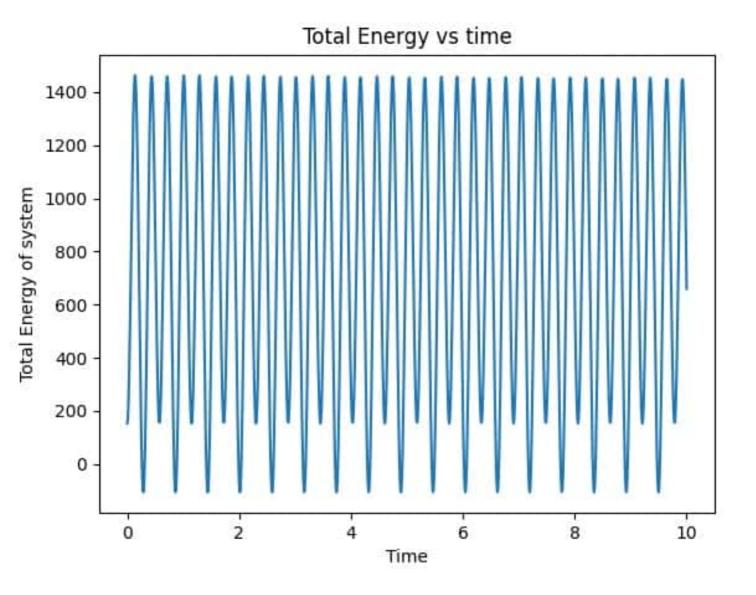


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(b)	WE TO THE PARTY OF
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	SOLT. Y = l sin o,
	From statie lquillibruin we have
	$\mathcal{E}M_0=0$
	Fx L CASO, - Fx l sin o, = The T
	For end effector to behave like spring we have
	For end effector to behave like spring we have
	Fr = b (oc oc)
	$F_{x} = k_{1}(x - x_{0})$ $F_{y} = k_{2}(y - y_{0})$
	:. Ti= l(&0, kg(y-y0) - l sino, k, (x-s0)









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7	Yes
8	Yes, In a spe given order
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b) Soft Robotic Grippers - https://onlinelibrary.wiley.com/doi/full/10.1002/adma.201707035
Origami Robots - https://www.youtube.com/watch?v=ZVYz7g-qLjs