











	classmate
	Date Page
	base Camelay
1 - 1	Non, part = Comma part = (1,1) * (1,1) = (100307)
	B A - 1 2 P P P P P P P P P P P P P P P P P P
	$ \begin{bmatrix} B & A & -1 \\ A & B \end{bmatrix} = \begin{bmatrix} A & P \\ B & B \end{bmatrix} - \begin{bmatrix} A & P \\ B & B \end{bmatrix} - \begin{bmatrix} A & P \\ B & B \end{bmatrix} $ Bora
	[bripper's Orientation: \[\begin{array}{c} 1 & 0 & 0 & 7 \\ 0 & -1 & 0 \\ 0 & 0 & -1 \end{array} \]
	to grate the goal -> the final should be => back . (100307
	=> baix . [100307]
	1-17 0 -1 0 15
4 1 1 15 15	
	If the sobot is Phirox Ro, then
	Pr/Py = G/s, 0 = atons (Py, Px) => atons (15,30)=26.5 05 = atont (nxs, -ny 4, 8xs, -sy 4) 02 - 48234 => ay =-85.5 aton 2 (8,4) = 26.5 \$234 = -(ax4 + cy 4);
1-1-1	atam 2 (S, G) = 26.5 Sugar - (ax + ax)
	$C_{39} = -9$
9 5	the party of the first the second of the sec
-	~
	Differential Rolations & Statice:
	rjoint varables Tool configuration: joint space
	feel n - 40 (9) joint varables Tool configuration: joint space
	fool n - 60 (9) Configuration function Jacobion matrix (Gar)
	fool n - 40 (9) Configuration = 1001 - 1001 on the configuration = 1001 on the
	fool n - 40 (9) relacity Configuration > 1001- (orniqueation function relacity Differential relationship > n= (Jcq) q => 749 = due (9) Here k > no. of joint relacities (14 44 1 = i=n)
	fool n - 60 (9) point variables Tool configuration: joint space velocity (indiquation > 1001-longiquation function pacobiom matrix (Garn) Differential relationship > n=(Jcq)q => Jugar = ducq)
	fool n- 6 (9) fool n- 6 (9) Configuration function Jifferential relationship There k > no. of joint velocities j -> ho. of degrees of freedom Tool configuration: joint space Tool configuration: joint space Jacobian matrix (6xn) There k > no. of joint velocities Jefferedom CI < k < 6, 1 \(\frac{1}{2} = n \)
	tool n - 10 (9) frool n - 10 (9) Configuration function Jippertal relationship > n= (Jeq) 9 => Jeqq = dwell Here k > no. of joint volocities j -> ho. of degrees of freedom (i) L: wq => [i] [Jw] Jw Jw - Jw 7
	fool n - w (q) Tool - configuration function Information Fool - configuration function There is no. of joint velocities There is no. of degrees of freedom There is no.
	feel n - 40 (9) represent to l'appearing function
	fool n- 6 (9) replaced to 1 onliquestion function Information Proof configuration function Proof of the lationship > n= (Jeq) q = Jusq = dwelly Here k > no. of joint relocities j = ho. of degrees of freedom X: wq => [x] [y] [y] [y] [y] [y] [y] [y]
	feel n-10 (9) feel n-10 (9) front variables Tool configuration: joint space Velecity Configuration Flood-configuration function Jacobiom matrix (Gun) Jacobiom matrix (Gun) T=(Jag) 9 => Jaga) = Jaga) Here k > no. of joint velocities J-> ho. of degrees of freedom X: $\omega_q =>$ [1 \(\frac{2\pi_1}{2\pi_1} \) \[\frac{2}{2\pi_1} \] \[\frac{2\pi_2}{2\pi_1} \] \[\frac{2\pi_2}{2\pi_2} \] \[\frac{2\pi_2}{2\pi_1} \] \[\frac{2\pi_2}{2\pi_2} \] \[\frac{2\pi_2}{2\p
	feel n-10 (9) feel n-10 (9) front variables Tool configuration: joint space Velecity Configuration Flood-configuration function Jacobiom matrix (Gun) Jacobiom matrix (Gun) T=(Jag) 9 => Jaga) = Jaga) Here k > no. of joint velocities J-> ho. of degrees of freedom X: $\omega_q =>$ [1 \(\frac{2\pi_1}{2\pi_1} \) \[\frac{2}{2\pi_1} \] \[\frac{2\pi_2}{2\pi_1} \] \[\frac{2\pi_2}{2\pi_2} \] \[\frac{2\pi_2}{2\pi_1} \] \[\frac{2\pi_2}{2\pi_2} \] \[\frac{2\pi_2}{2\p
	fool n = 6 (9) foint variables Tool configuration: joint space velocity configuration > 1001-longing various function gracobions matrix Differential telationship > n= (Jeq) 1 => Jeqq = dwo(1) Here k > no. of joint velocities (1 < k < 6, 1 = j = n) ** ** ** ** ** ** ** ** **
	feel n- w (9) Tool-configuration function Joint space Velocity Configuration Tool-configuration function Jippental relationship The Jeg 1 = Jeg 2 = Jeg
	fool n = 6 (9) foint variables Tool configuration: joint space velocity configuration > 1001-longing various function gracobions matrix Differential telationship > n= (Jeq) 1 => Jeqq = dwo(1) Here k > no. of joint velocities (1 < k < 6, 1 = j = n) ** ** ** ** ** ** ** ** **