MABHUA: POUTIOTIUM I: ANANYZH, ENETXOS, EPTASTHPIO Ezaunviaia Epyabia

A. DEWPNEIUN AVARUER ITOIXE'a: Francis Payors to flap xns 03716126

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$$A_{Q}^{\circ}(q_{11}q_{Q}) = A_{L}^{\circ}(q_{L}) \cdot A_{Q}^{\dagger}(q_{Q}) = \begin{bmatrix} c_{1} & 0 - s_{1} & 0 \\ 0 & 1 & 0 & 0 \\ s_{1} & 0 & c_{1} & k_{1} \\ 0 & 0 & c_{1} & k_{2} \\ 0 & 0 & c_{2} &$$

ОПО РЕ = A3 (a1,92,93). 9 п чипьачий Едівшен

TEOGRAPIENOS Zavarbiams Historis I.

$$J_{LL} = bo' \times vo' \in , vo' \in = vo \in -voo'$$

$$J_{AL} = bo' = \begin{pmatrix} 0 \\ -L \\ 0 \end{pmatrix}$$

$$J_{L_{1}} = \begin{pmatrix} 0 \\ -1 \\ 0 \end{pmatrix} \times \begin{pmatrix} c_{1}l_{3}cq_{3} + c_{1}cq^{1}l_{2} - S_{1}l_{L} \\ l_{3}Sq_{3} + S_{2}l_{2} \\ s_{1}l_{3}cq_{3} + s_{1}cq^{1}l_{2} \end{pmatrix} = \begin{pmatrix} -5_{1}cq_{3}l_{3} - S_{1}cq^{1}l_{q} - C_{1}l_{1} \\ 0 \\ c_{1}l_{3}cq_{3} + c_{1}cq^{1}l_{q} - S_{1}l_{1} \end{pmatrix}$$

$$J_{AQ} = b_L = \begin{pmatrix} -s_L \\ 0 \\ c_L \end{pmatrix}$$

$$J_{L_{q}} = \begin{pmatrix} -s_{1} \\ 0 \\ c_{1} \end{pmatrix} \times \begin{pmatrix} c_{1} l_{3} c_{23} + c_{1} c_{2} l_{2} - s_{1} l_{1} \\ l_{3} s_{q3} + s_{q} l_{q} \\ s_{1} l_{3} c_{q3} + s_{1} c_{q} l_{2} + c_{1} l_{1} \end{pmatrix} = \begin{pmatrix} -c_{1} s_{q3} l_{3} - c_{1} s_{q} l_{q} \\ c_{q3} l_{3} + l_{q} c_{q} \\ -s_{1} s_{q3} l_{3} - s_{1} s_{q} l_{q} \end{pmatrix}$$

$$J_{A3} = b_{Q}^{2} + r_{Q}C + r_{Q}C = r_{Q}C - r_{Q}C$$

$$J_{A3} = b_{Q}^{2} = \begin{pmatrix} -s_{1} \\ 0 \\ c_{L} \end{pmatrix}$$

$$\int_{L_{3}}^{2} = \begin{pmatrix} -51 \\ 0 \\ c_{1} \end{pmatrix} \times \begin{pmatrix} c_{1} l_{3} c_{23} \\ l_{3} c_{23} \\ c_{1} l_{3} c_{23} \end{pmatrix} = \begin{pmatrix} -l_{3} c_{23} c_{1} \\ l_{3} c_{23} c_{1} \\ -c_{1} l_{3} c_{23} \\ \end{pmatrix}$$

Jediua n Tauwbiorn Nnicea Eivai:

$$\begin{bmatrix}
-s_1cq_3l_3-s_1cqlq-c_1l_1 & -c_1sq_3l_3-c_1sqlq & -l_3sq_3(1) \\
0 & (q_3l_3+lq_0q) & l_3cq_3 \\
c_1cq_3l_3+c_1cqlq-s_1l_1 & -s_1sq_3l_3-s_1sqlq & -s_1l_3sq_3
\end{bmatrix} = 0 & -s_1 & -s_1 \\
-L & CL$$

I Eliphobdez gracaifuz on wood Abahman caxilla

$$det \left| \int_{-1}^{1} = 0 \right| = 0 = -\left(s_1 (q_3 l_3 + s_1 (q_1 l_2 + c_1 l_1) \left(-(c_{q_3} l_3 + l_2 (q_1) s_1 s_{q_3} l_3 + (q_3 l_3 (s_1 s_{q_3} l_3 + c_1 s$$

Ka rown:

$$\begin{aligned}
& \underbrace{\text{Eupeon } J_{-1}^{-1}} \\
& J_{-1} = \frac{1}{\det J_{-1}} \begin{bmatrix} A_{11} & A_{21} & A_{31} \\ A_{12} & A_{22} & A_{32} \\ A_{31} & A_{32} & A_{33} \end{bmatrix} \\
& \underbrace{\text{onou } A_{11} = \begin{bmatrix} c_{33}l_{5} + l_{3}c_{2} & c_{23}l_{3} \\ -s_{1}s_{23}l_{3} - s_{1}s_{2}l_{2} & -s_{1}s_{2}l_{3} \end{bmatrix}}_{= -s_{1}c_{23}s_{23}l_{3}^{2} + s_{1}s_{2}s_{2}s_{3}l_{3}^{2} + s_{1}s_{2}s_{2}s_{3}l_{3}^{2} - s_{1}c_{2}l_{2} + s_{1}s_{2}c_{2}l_{3}l_{3}}
\end{aligned}$$

$$= 51 \log 3 \log 3 + 3(-13) 23 + 3(-13) = 51 \log 3 (59 \log 3 - (9593))$$

$$= -51 \log 3 (593 - (9593))$$

$$= -51 53 \log 3$$

$$A_{iq} = - \begin{vmatrix} c_{1}c_{2}c_{3} \\ c_{1}c_{2}c_{3}c_{3} + c_{1}c_{2}c_{2}c_{3}c_{3} \end{vmatrix}$$

$$A_{1Q} = C_{23}l_{3} (c_{1}c_{23}l_{3} + c_{1}c_{2}l_{2} - s_{1}l_{1}) = 0$$

$$A_{13} = -\left(c_{3}l_{3} + l_{2}c_{2}\right)\left(c_{1}\left(c_{2}l_{3} + c_{1}c_{2}l_{2} - s_{1}l_{1}\right) = 0$$

$$A_{13} = -\left(c_{3}l_{3} + l_{2}c_{2}\right)\left(s_{1}l_{1} - c_{1}\left(c_{2}l_{3} + c_{2}l_{2}\right)\right)$$

$$A_{23} = 5^{2}_{1} s_{23} c_{23} l_{3} + s^{2}_{1} c_{2} s_{23} l_{2} l_{3} + s_{1} c_{1} s_{23} l_{1} l_{3}$$

$$+ 5^{2}_{1} s_{2} c_{23} l_{2} l_{3} + s^{2}_{1} c_{2} s_{2} l_{2}^{2} + s_{1} s_{2} c_{1} l_{1} l_{2}$$

$$+ (^{2}_{1} c_{23} s_{23} l_{3})^{2} + (^{2}_{1} s_{1} c_{23} l_{2} l_{3})$$

$$+ (^{2}_{1} c_{23} s_{23} l_{3})^{2} + (^{2}_{1} c_{23} l_{2} l_{3})$$

$$+ (^{2}_{1} c_{23} s_{23} l_{3} l_{3} + (^{2}_{1} c_{23} s_{2} l_{2} l_{3})$$

$$- (^{2}_{1} s_{23} l_{3} + l_{2} s_{2}) + (^{2}_{1} l_{2} (s_{23} l_{3} + s_{2} l_{2})$$

$$= (^{2}_{2} s_{1} l_{3} + c_{2} l_{2}) (s_{23} l_{3} + l_{2} s_{2})$$

$$= (^{2}_{2} s_{1} l_{3} + c_{2} l_{2}) (s_{23} l_{3} + l_{2} s_{2})$$

$$A3L = - (1 sq3 cq3 l3^{2} - (1 s2(23 l2 l3 + (1 s3(23 l3^{2} + (1 c3 s2 s2 l2 l3 + (1 c3 s2 s2 l2 l3 l3^{2} + (1 c3 s2 s2 l3 l3^{2} + (1$$

Kai so anagréodo gradobino aintrasino ponsejo Eindi

$$\int_{-1}^{-51} \frac{1}{\log \log x} = \frac{C_1 \log x}{\log \log x}$$

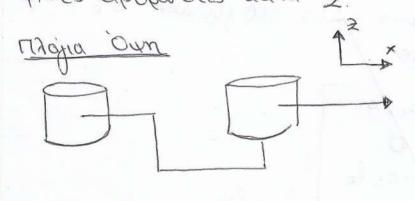
$$\int_{-1}^{-51} = \frac{C_1 \log x}{\log x} = \frac{C_2 \log x}{\log x} =$$

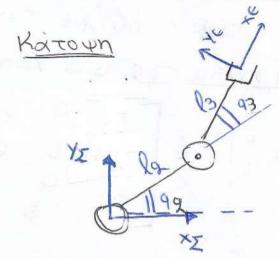
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Απο τις διαφάνειες του Μαθήματος (Διαφάνεια Το Κινημοτιαί) Εχουρε την αμολουύν ανάλυση:

$$\Sigma_{p_{x}} = l_{2} c_{q} + l_{3} c_{q_{3}} = \Sigma_{p_{x}} + p_{y} = l_{2} c_{q}^{2} + l_{3} c_{q_{3}}^{2} + 2 l_{2} l_{3}^{2} c_{q_{3}}^{2} + 2 l_{3} c_{q_{3}}^{2} + 2 l_$$

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$$Q_{\alpha}Q_{\alpha}$$
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 $Q_{\alpha}(q_{\alpha})$
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Diagavas TE ano Kirnhamiun.

TERUG:
$$A_3 = A_1$$
, $A_3 = D_1$, $A_3 = (A_1)^{-1}$, $A_1 = (A_1)^{-1}$, $A_2 = (A_1)^{-1}$, $A_3 = (A_1)^{-1}$, $A_1 = (A_1)^{-1}$, $A_2 = (A_1)^{-1}$, $A_3 = (A_1)^{-1}$, $A_1 = (A_1)^{-1}$, $A_2 = (A_1)^{-1}$, $A_3 = (A_1)^{-1}$, $A_1 = (A_1)^{-1}$, $A_2 = (A_1)^{-1}$, $A_$

$$A_{3}^{\prime} = (A_{1}^{\circ})^{-1} \cdot A_{3}^{\circ} \Rightarrow A_{3}^{\prime} = \begin{bmatrix} c_{1} & c_{1} & c_{2} & c_{3} \\ c_{1} & c_{2} & c_{3} \\ c_{2} & c_{3} & c_{4} \\ c_{1} & c_{2} & c_{4} \\ c_{2} & c_{4} & c_{4} \\ c_{4} & c_{4} & c_{4} \\ c_{5} & c_{4} & c_{4} \\ c_{5} & c_{5} & c_{5} \\ c_{6} & c_{6} & c_{5} \\ c_{6} & c_{6} & c_{5} \\ c_{6} & c_{6} & c_{6} \\ c_{$$

$$O \mu \omega = A_{3}^{L} = A_{2}^{L} = \begin{bmatrix} c_{2} - s_{2} & 0 & c_{2} \\ s_{2} & c_{2} & 0 & s_{2} \\ s_{3} & c_{3} & s_{3} \\ c_{3} & c_{3} & c_{3} \\ c_{3} & c_{3} & c_{3} \\ c_{4} & c_{5} \\ c_{5} \\ c_{5} & c_{5} \\ c_$$

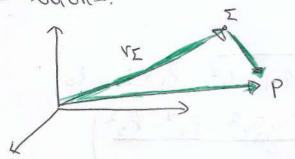
Ano Eficason rivorum l=-Px5,+C,(P2-lo)

Getw t= ton
$$\left(\frac{q_1}{q_1}\right)$$
 = $\frac{1+\sqrt{12}}{5=2t/4+12}$.

Chu $l_1 = -\frac{p \times 2t}{1+\sqrt{2}}$ + $\left(\frac{p_2-l_0}{2}\right)\cdot(1-t^2)$

Let $l_1 + l_1 + l_2 = -2p_1 + l_2 + l_2 + l_2 - l_0 - l_1 = D$
 $\left(l_1 + l_2 - l_0\right) + l_2 + 2p_1 + l_2 + l_2 - l_0 - l_1 = D$
 $\left(l_1 + l_2 - l_0\right) + l_2 + 2p_1 + l_2 + l_2 - l_0 - l_1 = D$
 $\left(l_1 + l_2 - l_0\right) + l_2 + 2p_1 + l_2 - l_0 - l_1 = D$
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The Baiens.



$$P_{x} = \begin{bmatrix} c_{1} & 0 & -s_{1} \\ 0 & 1 & 0 \\ s_{1} & 0 & c_{1} \end{bmatrix}^{T} \begin{bmatrix} p_{x} \\ p_{y} \\ s_{1} & 0 & c_{1} \end{bmatrix}^{T} \begin{bmatrix} -s_{1} & l_{1} \\ 0 & 1 & 0 \\ s_{1} & 0 & c_{1} \end{bmatrix}^{T} \begin{bmatrix} -s_{1} & l_{1} \\ 0 & 1 & 0 \\ s_{2} & 0 & c_{1} \end{bmatrix}^{T} \begin{bmatrix} -s_{1} & l_{1} \\ 0 & l_{2} & l_{2} \end{bmatrix}^{T} \begin{bmatrix} -s_{1} & l_{1} \\ 0 & l_{2} & l_{2} \end{bmatrix}^{T} \begin{bmatrix} -s_{1} & l_{1} \\ 0 & l_{2} & l_{2} \end{bmatrix}^{T} \begin{bmatrix} -s_{1} & l_{1} \\ 0 & l_{2} & l_{2} \end{bmatrix}^{T} \begin{bmatrix} -s_{1} & l_{1} \\ 0 & l_{2} & l_{2} \end{bmatrix}^{T} \begin{bmatrix} -s_{1} & l_{1} \\ 0 & l_{2} & l_{2} \end{bmatrix}^{T} \begin{bmatrix} -s_{1} & l_{1} \\ 0 & l_{2} & l_{2} \end{bmatrix}^{T} \begin{bmatrix} -s_{1} & l_{1} \\ 0 & l_{2} & l_{2} \end{bmatrix}^{T} \begin{bmatrix} -s_{1} & l_{1} \\ 0 & l_{2} & l_{2} \end{bmatrix}^{T} \begin{bmatrix} -s_{1} & l_{1} \\ 0 & l_{2} & l_{2} \end{bmatrix}^{T} \begin{bmatrix} -s_{1} & l_{1} \\ 0 & l_{2} & l_{2} \end{bmatrix}^{T} \begin{bmatrix} -s_{1} & l_{1} \\ 0 & l_{2} & l_{2} \end{bmatrix}^{T} \begin{bmatrix} -s_{1} & l_{1} \\ 0 & l_{2} & l_{2} \end{bmatrix}^{T} \begin{bmatrix} -s_{1} & l_{1} \\ 0 & l_{2} & l_{2} \end{bmatrix}^{T} \begin{bmatrix} -s_{1} & l_{1} \\ 0 & l_{2} & l_{2} \end{bmatrix}^{T} \begin{bmatrix} -s_{1} & l_{1} \\ 0 & l_{2} & l_{2} \end{bmatrix}^{T} \begin{bmatrix} -s_{1} & l_{1} \\ 0 & l_{2} & l_{2} \end{bmatrix}^{T} \begin{bmatrix} -s_{1} & l_{1} \\ 0 & l_{2} & l_{2} \end{bmatrix}^{T} \begin{bmatrix} -s_{1} & l_{1} \\ 0 & l_{2} & l_{2} \end{bmatrix}^{T} \begin{bmatrix} -s_{1} & l_{1} \\ 0 & l_{2} & l_{2} \end{bmatrix}^{T} \begin{bmatrix} -s_{1} & l_{1} \\ 0 & l_{2} & l_{2} \end{bmatrix}^{T} \begin{bmatrix} -s_{1} & l_{1} \\ 0 & l_{2} & l_{2} \end{bmatrix}^{T} \begin{bmatrix} -s_{1} & l_{1} \\ 0 & l_{2} & l_{2} \end{bmatrix}^{T} \begin{bmatrix} -s_{1} & l_{1} \\ 0 & l_{2} & l_{2} \end{bmatrix}^{T} \begin{bmatrix} -s_{1} & l_{1} \\ 0 & l_{2} & l_{2} \end{bmatrix}^{T} \begin{bmatrix} -s_{1} & l_{1} \\ 0 & l_{2} & l_{2} \end{bmatrix}^{T} \begin{bmatrix} -s_{1} & l_{1} \\ 0 & l_{2} & l_{2} \end{bmatrix}^{T} \begin{bmatrix} -s_{1} & l_{1} \\ 0 & l_{2} & l_{2} \end{bmatrix}^{T} \begin{bmatrix} -s_{1} & l_{1} \\ 0 & l_{2} & l_{2} \end{bmatrix}^{T} \begin{bmatrix} -s_{1} & l_{1} \\ 0 & l_{2} & l_{2} \end{bmatrix}^{T} \begin{bmatrix} -s_{1} & l_{1} \\ 0 & l_{2} & l_{2} \end{bmatrix}^{T} \begin{bmatrix} -s_{1} & l_{1} \\ 0 & l_{2} & l_{2} \end{bmatrix}^{T} \begin{bmatrix} -s_{1} & l_{1} \\ 0 & l_{2} & l_{2} \end{bmatrix}^{T} \begin{bmatrix} -s_{1} & l_{1} \\ 0 & l_{2} & l_{2} \end{bmatrix}^{T} \begin{bmatrix} -s_{1} & l_{1} \\ 0 & l_{2} & l_{2} \end{bmatrix}^{T} \begin{bmatrix} -s_{1} & l_{1} \\ 0 & l_{2} & l_{2} \end{bmatrix}^{T} \begin{bmatrix} -s_{1} & l_{1} \\ 0 & l_{2} & l_{2} \end{bmatrix}^{T} \begin{bmatrix} -s_{1} & l_{1} \\ 0 & l_{2} & l_{2} \end{bmatrix}^{T} \begin{bmatrix} -s_{1} & l_{1} \\ 0 & l_{2} & l_{2} \end{bmatrix}^{T} \begin{bmatrix} -s_{1} & l_{1} \\ 0 & l_{2} & l_{2} \end{bmatrix}^{T} \begin{bmatrix} -s_{1} & l_{1} \\ 0 & l_{2} & l_{2} \end{bmatrix}^{T} \begin{bmatrix} -s_{1} & l_{1} \\ 0 & l_{2} & l_{2} \end{bmatrix}^{T} \begin{bmatrix} -s_{1} & l_{1} \\$$

$$= \begin{bmatrix} c_{1} & 0 & s_{1} \\ 0 & 1 & 0 \\ -s_{1} & 0 & c_{1} \end{bmatrix} \begin{bmatrix} p_{+} \\ p_{2} \\ -s_{1} & 0 & c_{1} \end{bmatrix} \begin{bmatrix} c_{1} & 0 & s_{1} \\ 0 & 1 & 0 \\ -s_{1} & 0 & c_{1} \end{bmatrix} \begin{bmatrix} -s_{1} & p_{1} \\ 0 & 1 \\ -s_{1} & 0 & c_{1} \end{bmatrix} \begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 1 & 0 \end{bmatrix} \begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 1 & 0 \end{bmatrix}$$

~ Asiapopa run

$$\nabla b^{\lambda} = b^{\lambda}$$

$$\nabla b^{\lambda} = (Tb^{\lambda} + 2Tb^{\frac{\lambda}{2}} - 2^{i}) \delta b^{\lambda}$$

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Aprilia Exolpe:

$$9_{+} = 2 \arctan 2 \left(-P_{x} + \sqrt{p_{x}^{2} + (p_{3} - l_{0})^{2} - l_{1}^{2}}, l_{1} + p_{2} - l_{0} \right)$$

$$9_{3} = \cos^{2} \left(\frac{\left(+ S_{1} l_{0} + (LP_{x} + S_{1} P_{x})^{2} + P_{y}^{2} - l_{y}^{2} - l_{3}^{2} + P_{y}^{2} + P_{y}^{2} + P_{y}^{2} - l_{3$$

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