$$\bar{a} = 96^{\times} I 36 = \begin{cases} -(is - iq)(y - dz + 44z)(z + 4y - 6x) \\ (ii - iq)(z + 4y - 6x)(4 - 4y + 6x) \\ -(ii - is)(y - 4z - 14z)(2 - 4y + 6z). \end{cases}$$

$$\int \omega_0^2 \int (\mu)(\mu)(\mu) = \int (\mu)(\mu)(\mu) = (\frac{4}{3})^2$$

$$\left(\frac{\mu}{h^{5}}\right) - \left(\frac{\mu}{h^{3}}\right) \left(\frac{1}{h^{2}}\right) = \left(\frac{\mu}{h^{3}}\right) \left(\frac{1}{h^{2}}\right) = \left(\frac{u_{0}^{2}}{h^{2}}\right)$$

$$z = 0$$

 $z = 9 col(wo f)$
 $f = n sin(wo f)$
 $f \in [0, 365 \times 24 \times 60 \times 60]$

plot a, a, a, of a for some n.

φ, o, 4 3 small angles = 0 max 20,0,43 = 10° = 10 II rad.

$$\begin{bmatrix} 1 & 0 & -9 \\ 0 & 1 & \phi \\ 0 & -\phi & 1 \end{bmatrix} \Rightarrow$$

$$\vec{a} = \begin{cases}
-(is-1a) (42 + 44)^{2} - 9xy - 4x^{2} + 4xz \\
(i_{1}-ia) (2z - 4xy + 82z + 4xy - 0x^{2}) \\
(i_{1}-ia) (2z - 4xy + 82z + 4xy - 0x^{2})
\end{cases}$$

$$\vec{a} = \begin{cases}
-(is-ia) (x^{2} - 4xy + 82z + 4xy - 0x^{2}) \\
(y, a^{2}, 4 - 20)
\end{cases}$$

$$\vec{a} = \begin{cases}
-(is-ia) (x^{2}) (0 + 4x^{2} - 4zz + 4xz)
\end{cases}$$

$$\vec{a} = \begin{cases}
-(is-ia) (x^{2}) (0 + 4x^{2} - 6cs + 0 + 0) \\
(i_{1}-ia) (x^{2}) (0 - 4cs + 0 + 6cs - 6cz + 0)
\end{cases}$$

$$\vec{a} = x^{2} (ia - is) (-6cs + 4x^{2}) \\
(i_{1}-ia) (-4cs + 4cs) - 6cz + 6c$$

$$\frac{1}{6} = (\lambda^{-1}) \begin{bmatrix} (i_1 - i_3) (\phi | 1_2) \\ (i_4 - i_4) (\phi | 1_2) \end{bmatrix} \\
(i_4 - i_4) (\phi | 1_2) \end{bmatrix} \begin{bmatrix} (i_4 - i_4) (\phi | 1_2) \\ (i_4 - i_4) (\phi | 1_2) \end{bmatrix} \\
= 2e^{-1} \\
\frac{3}{4} \begin{bmatrix} (i_4) \\ (x_5) \end{bmatrix} \begin{bmatrix} (i_2 - I_4) \phi \\ (I_2 - I_4) \phi \\ (I_3 - I_4) \phi \end{bmatrix} \\
= \begin{bmatrix} \frac{3}{4} \frac{1}{4} \frac{1}{4} \\ (I_4 - I_4) \phi \\ (I_5 - I_4) \phi \end{bmatrix} + \begin{bmatrix} (i_4 - i_4) \frac{1}{4} \frac{1}{4} \\ (i_4 - i_4) \frac{1}{4} \end{bmatrix} \\
= \frac{3}{4} \begin{bmatrix} (i_4 - i_4) \phi \\ (I_2 - I_4) \phi \\ (I_3 - I_4) \phi \end{bmatrix} + \begin{bmatrix} (i_4 - i_4) \phi \\ (i_4 - i_4) \phi \\ (i_4 - i_4) \phi \end{bmatrix} \\
= \frac{3}{4} \begin{bmatrix} (i_4 - i_4) \phi \\ (I_2 - I_4) \phi \\ (I_3 - I_4) \phi \end{bmatrix} + \begin{bmatrix} (i_4 - i_4) \phi \\ (i_4 - i_4) \phi \\ (i_4 - i_4) \phi \end{bmatrix} \\
= \begin{bmatrix} (i_4 - i_4) \phi \\ (I_4 - I_4) \phi \\ (I_4 - I_4) \phi \end{bmatrix} + \begin{bmatrix} (i_4 - i_4) \phi \\ (I_4 - I_4) \phi \\ (I_4 - I_4) \phi \end{bmatrix} \\
= \begin{bmatrix} (i_4 - i_4) \phi \\ (I_4 - I_4) \phi \\ (I_4 - I_4) \phi \end{bmatrix} + \begin{bmatrix} (i_4 - i_4) \phi \\ (i_4 - I_4) \phi \\ (I_4 - I_4) \phi \end{bmatrix} \\
= \begin{bmatrix} (i_4 - i_4) \phi \\ (I_4 - I_4) \phi \\ (I_4 - I_4) \phi \end{bmatrix} + \begin{bmatrix} (i_4 - i_4) \phi \\ (i_4 - I_4) \phi \\ (I_4 - I_4) \phi \end{bmatrix} \\
= \begin{bmatrix} (i_4 - I_4) \phi \\ (I_4 - I_4) \phi \\ (I_4 - I_4) \phi \end{bmatrix} + \begin{bmatrix} (i_4 - I_4) \phi \\ (i_4 - I_4) \phi \\ (I_4 - I_4) \phi \end{bmatrix} \\
= \begin{bmatrix} (i_4 - I_4) \phi \\ (I_4 - I_4) \phi \\ (I_4 - I_4) \phi \end{bmatrix} + \begin{bmatrix} (i_4 - I_4) \phi \\ (i_4 - I_4) \phi \\ (I_4 - I_4) \phi \end{bmatrix} \\
= \begin{bmatrix} (i_4 - I_4) \phi \\ (I_4 - I_4) \phi \\ (I_4 - I_4) \phi \end{bmatrix} + \begin{bmatrix} (i_4 - I_4) \phi \\ (i_4 - I_4) \phi \\ (I_4 - I_4) \phi \end{bmatrix} \\
= \begin{bmatrix} (i_4 - I_4) \phi \\ (I_4 - I_4) \phi \\ (I_4 - I_4) \phi \end{bmatrix} + \begin{bmatrix} (i_4 - I_4) \phi \\ (I_4 - I_4) \phi \\ (I_4 - I_4) \phi \end{bmatrix} \\
= \begin{bmatrix} (i_4 - I_4) \phi \\ (I_4 - I_4) \phi \\ (I_4 - I_4) \phi \end{bmatrix} + \begin{bmatrix} (i_4 - I_4) \phi \\ (I_4 - I_4) \phi \\ (I_4 - I_4) \phi \end{bmatrix} \\
= \begin{bmatrix} (i_4 - I_4) \phi \\ (I_4 - I_4) \phi \\ (I_4 - I_4) \phi \end{bmatrix} + \begin{bmatrix} (i_4 - I_4) \phi \\ (I_4 - I_4) \phi \\ (I_4 - I_4) \phi \end{bmatrix} \\
= \begin{bmatrix} (i_4 - I_4) \phi \\ (I_4 - I_4) \phi \\ (I_4 - I_4) \phi \end{bmatrix} + \begin{bmatrix} (i_4 - I_4) \phi \\ (I_4 - I_4) \phi \\ (I_4 - I_4) \phi \end{bmatrix} \\
= \begin{bmatrix} (i_4 - I_4) \phi \\ (I_4 - I_4) \phi \\ (I_4 - I_4) \phi \end{bmatrix} + \begin{bmatrix} (i_4 - I_4) \phi \\ (I_4 - I_4) \phi \\ (I_4 - I_4) \phi \end{bmatrix} \\
= \begin{bmatrix} (i_4 - I_4) \phi \\ (I_4 - I_4) \phi \\ (I_4 - I_4) \phi \end{bmatrix} + \begin{bmatrix} (i_4 - I_4) \phi \\ (I_4 - I_4) \phi \\ (I_4 - I_4) \phi \end{bmatrix} \\
= \begin{bmatrix} (i_4 - I_4) \phi \\ (I_4 - I_4) \phi \\ (I_4 - I_4) \phi \end{bmatrix} + \begin{bmatrix} (i_4 - I_4) \phi \\ (I_4 - I_4) \phi \\ (I_4 - I_4) \phi \end{bmatrix} \\
= \begin{bmatrix} (i_4 - I_4) \phi \\ (I_4 - I_4) \phi \\ (I_4 - I_4) \phi \end{bmatrix} + \begin{bmatrix} (i_4 - I_4) \phi \\ (I_4 - I$$

$$\frac{d(A)}{T_{con}(A)} = \begin{bmatrix} \frac{1}{A^2} - \frac{5wa^2}{2} \\ A^2 - \frac{3wb^2}{2} \end{bmatrix} (I_2 - I_3) \end{bmatrix}$$

$$\frac{d(A)}{T_{con}(A)} = \begin{bmatrix} \frac{1}{A^2} - \frac{5wa^2}{2} \\ A^2 - \frac{3wb^2}{2} \end{bmatrix} (I_2 - I_3) \end{bmatrix}$$

$$\frac{\psi(A)}{T_{con}(A)} = \begin{bmatrix} \frac{1}{A^2} - \frac{3wb^2}{2} \\ A^2 - \frac{3wb^2}{2} \end{bmatrix} (I_2 - I_3)$$

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$$\frac{\psi(A)}{T_{con}(A)} = \begin{bmatrix} \frac{1}{A^2} - \frac{3wb^2}{2} \\ \frac{3wb^2}{2} \end{bmatrix} (I_3 - I_3)$$

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$$\frac{\psi(A)}{T_{con}$$

$$\frac{\phi(A)}{\Gamma_{Cx}(A)} = \frac{1}{A^{2} + 7 \cdot 026} = \frac{10^{-1}}{10^{-1}}$$

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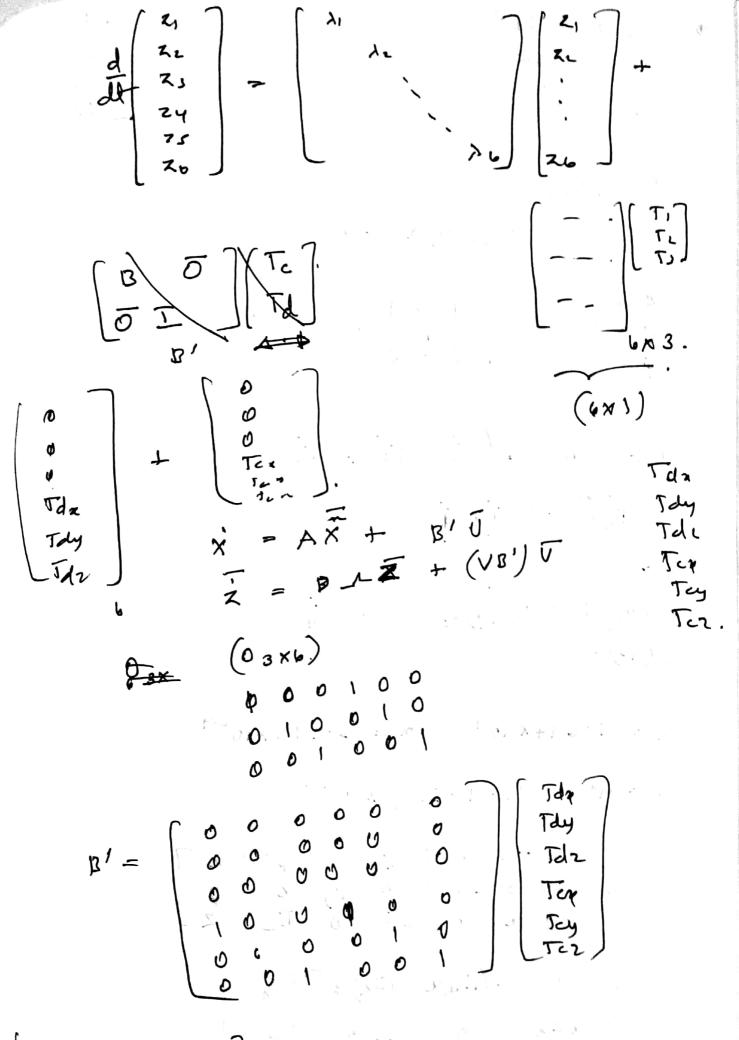
$$\frac{\phi(A)}{\Gamma_{Cx}(A)} = \frac{1}{A^{2} + 7 \cdot 026} = \frac{10^{-1}}{10^{-1}}$$

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$$\frac{\phi(A)}{\Gamma_{Cx}(A)} = \frac{10^{-1}$$

(q,0,4) W, 1 (d,0,4) (d,0,4) (d,100,10) ∫()dt → [{zþi {zoi {zyi}}]
. inihally (. For large N ms traps) ns.= (ode45) (& f (t, n, u) 2; (to) +) + no) Iw + w x (Iw) = Zg + Zd + Zc $X = (V^{-1} Z)$ X = AX + BU z = (VAV-1) Z + (VB) U (diagonal)



[Pseudo- rate generation]

$$\begin{bmatrix} \dot{q} \\ \dot{o} \\ \dot{\psi} \end{bmatrix} = \begin{bmatrix} 1 & 1 & 1 \\ 1 & 1 & 1 \\ 0 & 0 \end{bmatrix} = 0$$

$$0 + 0 = (\overline{T_d} + \overline{T_g}) + \overline{T_c}$$

$$(\overline{T_c})^{+} - (\overline{T_d} + \overline{T_g})$$

$$\left(\frac{\mu}{(45)}\right) \left(f(n_1y_1z_2)\right) = \overline{Tg}$$

$$6 = 6.614 \times 10^{-11}$$
 $m = 5.972 \times 10^{21}$

$$\Rightarrow \begin{bmatrix} 0 - x & y \\ x & 0 - x \end{bmatrix} \begin{bmatrix} I_x & 0 & 0 \\ 0 & I_y & 0 \\ 0 & 0 & I_z \end{bmatrix} \begin{bmatrix} x \\ y \\ z \end{bmatrix}$$

$$\begin{bmatrix}
0 & -(\underline{T}y)z & (\underline{T}z)y \\
x \underline{\Gamma}x & 0 & -x \underline{T}z \\
-y \underline{\Gamma}x & x \underline{\Gamma}y & 0
\end{bmatrix}
\begin{bmatrix}
x \\
7 \\
2
\end{bmatrix}$$

$$\overline{z}_{S} = \left(\frac{\mu}{1}\right) \left(\frac{\lambda}{1}\right) \left(\frac{\lambda}{1}\right)$$

$$\overline{z}_{S} = \left(\frac{\mu}{1}\right) \left(\frac{\lambda}{1}\right) \left(\frac{\lambda}{1}\right)$$

$$\overline{z}_{S} = \left(\frac{\lambda}{1}\right) \left(\frac{\lambda}{1}\right)$$

$$A = \left(\frac{\lambda}{2}\right) \left(\frac{\lambda}{2}\right)$$

$$A = \left(\frac{\lambda}{2}\right)$$

$$\begin{bmatrix}
S & 0 \\
S & 0
\end{bmatrix} = \begin{bmatrix}
\alpha_1 \\
0 \\
0 \\
0
\end{bmatrix} \begin{bmatrix}
Su_1 \\
Su_2
\end{bmatrix} \begin{bmatrix}
Su_2 \\
Su_3
\end{bmatrix} \begin{bmatrix}
Su_2 \\
Su_4
\end{bmatrix} = Su_5$$

$$\begin{bmatrix}
Sy_1 = A_1 Su_4 \\
Sy_2 = A_2 Su_4
\end{bmatrix}$$

$$\frac{d(1)}{d(2)} = \begin{pmatrix}
\alpha_1 \\
0 \\
0 \\
0 \\
0
\end{pmatrix} = \begin{pmatrix}
\alpha_2 \\
0 \\
0 \\
0 \\
0
\end{pmatrix}$$

$$\frac{d(1)}{d(2)} = \begin{pmatrix}
\alpha_1 \\
\alpha_2 \\
0 \\
0 \\
0 \\
0
\end{pmatrix}$$

$$\frac{d(1)}{d(2)} = \begin{pmatrix}
\alpha_2 \\
3 \\
0 \\
0 \\
0
\end{pmatrix}$$

$$\frac{d(1)}{d(2)} = \begin{pmatrix}
\alpha_3 \\
3 \\
0 \\
0
\end{pmatrix}$$

$$\frac{d(1)}{d(2)} = \begin{pmatrix}
\alpha_3 \\
3 \\
0 \\
0
\end{pmatrix}$$

$$\frac{d(1)}{d(2)} = \begin{pmatrix}
\alpha_3 \\
3 \\
0
\end{pmatrix}$$

$$\frac{d(1)}{d(2)} = \begin{pmatrix}
\alpha_3 \\
3 \\
0
\end{pmatrix}$$

$$\frac{d(1)}{d(2)} = \begin{pmatrix}
\alpha_3 \\
\beta_1 \\
\beta_2 \\
\beta_2 \\
\beta_3 \\
\beta_4 \\
\beta_$$

$$\frac{d}{dt} \begin{pmatrix} f \phi \\ s \phi \\ s \psi \end{pmatrix} = \begin{pmatrix} g \phi \\ g \phi \\ S A \end{pmatrix}.$$

$$\begin{bmatrix}
S\phi \\
S\phi \\
S\phi
\end{bmatrix} = \begin{bmatrix}
-4 \\
0 \\
0 \\
0 \\
0
\end{bmatrix}
\begin{bmatrix}
5.67 \\
0 \\
0 \\
0 \\
0
\end{bmatrix}
\begin{bmatrix}
5m_1 \\
5m_2 \\
5m_3
\end{bmatrix}$$

$$\dot{\chi} = (\chi) \, \chi$$

$$\dot{\chi}(3) = \chi \, U(3)$$

$$\frac{\chi(3)}{U(3)} = \left(\frac{\chi}{8^2}\right).$$

$$(R-Y) = E \qquad \left(kp + \frac{kd}{3} + \frac{ki}{3}\right)$$

$$\frac{(1)}{(3^{2})} \left(\frac{kp}{kp} + \frac{kd}{k} + \frac{kc}{k} \right) \left(\frac{R-4}{2} - \frac{4}{1} \right) \left(\frac{R}{3^{2}} \right) \left(\frac{kp}{kp} + \frac{kd}{k} + \frac{kc}{k} \right) = \frac{(4)}{1} \left(\frac{R}{3^{2}} \right) \left(\frac{kp}{kp} + \frac{kd}{kp} + \frac{kc}{kq} \right) = \frac{4}{1} \left(\frac{R}{3^{2}} \right) \left(\frac{kp}{kp} + \frac{kd}{kp} + \frac{kc}{kq} \right) = \frac{4}{1} \left(\frac{R}{3^{2}} \right) \left(\frac{kp}{kp} + \frac{kd}{kq} + \frac{kc}{kc} \right) = \frac{4}{1} \left(\frac{R}{k} \right) \left(\frac{R}{kp} + \frac{kd}{kq} + \frac{kc}{kc} \right) = \frac{4}{1} \left(\frac{R}{k} \right) \left(\frac{R}{kp} + \frac{kc}{kq} + \frac{kc}{kc} \right) = \frac{4}{1} \left(\frac{R}{k} \right) \left(\frac{R}{kp} + \frac{kc}{kq} + \frac{kc}{kc} \right) = \frac{4}{1} \left(\frac{R}{k} \right) \left(\frac{R}{kp} + \frac{kc}{kq} + \frac{kc}{kq} \right) = \frac{4}{1} \left(\frac{R}{k} \right) \left(\frac{R}{kp} + \frac{kc}{kq} \right) = \frac{4}{1} \left(\frac{R}{k} \right) \left(\frac{R}{kp} + \frac{kc}{kq} \right) = \frac{4}{1} \left(\frac{R}{k} \right) \left(\frac{R}{kp} + \frac{kc}{kq} \right) = \frac{4}{1} \left(\frac{R}{k} \right) \left(\frac{R}{kp} + \frac{kc}{kq} \right) = \frac{4}{1} \left(\frac{R}{k} \right) \left(\frac{R}{kp} + \frac{kc}{kq} \right) = \frac{4}{1} \left(\frac{R}{k} \right) \left(\frac{R}{kp} + \frac{kc}{kq} \right) = \frac{4}{1} \left(\frac{R}{k} \right) \left(\frac{R}{kp} + \frac{kc}{kq} \right) \left(\frac{R}{kp} + \frac{kc}{kq} \right) = \frac{4}{1} \left(\frac{R}{k} \right) \left(\frac{R}{kp} + \frac{kc}{kq} \right) \left(\frac{R}{kp} + \frac{kc}{kq} \right) \left(\frac{R}{kp} + \frac{kc}{kq} \right) = \frac{4}{1} \left(\frac{R}{kp} \right) \left(\frac{R}{kp} + \frac{kc}{kq} \right) \left(\frac{R}{kq} + \frac{kc$$

kinemahis

$$\frac{d}{dt} \begin{pmatrix} 0 \\ 0 \\ \psi \\ \omega_{L} \end{pmatrix} = \frac{1}{2} \left(\overline{X}_{1} \overline{U} \right)$$

$$\frac{d}{dt} (\overline{X}) = \frac{2}{1} \left| S\overline{X} + \frac{2}{1} \overline{U} \right| S\overline{U}$$
where $(X^{*}, U^{*}) = Sq_{1}$, point
$$\overline{X} = 0 \implies f(X^{*}, U^{*}) = 0$$

$$\begin{array}{c} \text{for some fixed quatition} \\ \text{for some fixed quatitio$$

$$\overline{\psi} = \overline{\overline{\psi}} = \overline{\overline{\psi}} = 1 \cdot 49$$

$$t_s = \frac{4\cdot 4}{3wn}$$
. $23w_n = a kd$

$$w_{n} = \frac{\pi}{(2)(1.49)}$$

$$= 0 \quad \text{kp} = \frac{(w_{n}^{2})}{(\alpha)}, \quad w_{n} = \frac{(402 \times 6)^{n}}{(402 \times 6)^{n}}$$

$$= 0.4774$$

$$3 = 1.0335$$
.

 $5 = 4.4$
 $5 = 4.4$
 $5 = 4.4$
 $5 = 8.9178$
 $5 = 3.2866$
 $5 = 3.2866$
 $5 = 3.2866$
 $5 = 3.2866$

(J40.52)(2.01×10_1)

$$\frac{1\cdot 4}{3} = 20$$

$$\frac{10}{3} = \frac{1}{3} = \frac{1}{$$

- 85.38

a lep > ki st a kdstakp } wn = (led) (Trp) / 1 - (kd 2 Tkp) 11- tmi (1 - led²/4/ep) VEp V kp - red² 24 tro Mp. = 0.15 = e VI-32 M = exp (2 d - led 2 - led 2

Scanned by CamScanner

$$|x| = 1066$$

$$|x| = 0.722$$

$$|x| = 10 - |x| = 1 - |x| =$$