Разбор дом. задания

$$\overline{q(\xi,t)} = \left(\frac{\beta}{\xi}, \frac{32}{2}\right) \frac{253}{72}$$

$$\overline{q(\xi,t)} = \left(0; 0; \frac{253}{72}\right)$$

$$\delta$$
) $t=c$

a=251, 6=352, c=253 Находий мар. p-ты каспивы, 100%. в MOENENT t= E HAXOGUNACE & TORRE (9, B, C):

Ita cacinega 6 enocuerar t= 30 maxagentas TORKE E F-TAMM:

$$\mathcal{X}_{1} = \frac{9}{2}(1+3) = 29$$
; $\mathcal{X}_{2} = \frac{6}{3}(1+6) = \frac{7}{3}6$; $\mathcal{X}_{3} = \frac{6}{2}(1+9) = 50$

$$\overline{v}(\xi,t) = (a\xi_1; b\xi_2; c\xi_3)$$

$$S_1 = \frac{x_1}{q}$$
; $S_2 = \frac{x_2}{8}$; $S_3 = \frac{x_3}{8}$

$$\overline{v}(\bar{z},t) = (\frac{\dot{q}}{q} z_1; \frac{\dot{b}}{b} z_2; \frac{c}{c} z_3)$$

$$\hat{q}(\hat{x}_i,t) = (\hat{q}_1,\hat{q}_2,\hat{q}_3,\hat{q$$

$$\chi_8 = \xi_3$$
 $\xi_3 = \chi$

$$x_3 = \xi_3$$
 $v = (8 \xi_2; 0; 0) = (8 \Re_2; 0; 0)$
 $v = (8 \xi_2; 0; 0) = (8 \Re_2; 0; 0)$

$$\widehat{x}|_{t=0} = \overline{\xi}$$

$$x_g = c_3 \left(t^3 + \tau^3 \right)$$

$$C_1 = \frac{s_1}{U}$$

$$C_2 = \frac{s_2}{U^2}$$

3948TUE NJ. KUNERUCITYKG & FÜRELPHOTOCH 1) Tracrioferes o surere rora,

Meyelel V (Z, t).

Hatoger. 2. Hatogeren 39KDH glernechens ry CHCiRcull: $\int \frac{dx}{dt} = \overline{v} \qquad (4).$ f/ 2/t=0=5 nocegresces $\bar{x}(\bar{\xi},t)$; gens raregoro $\bar{\xi}$ unenjeuses close épenbeja ous ragorbacios spaceropereir. (1) - espabrereire paris pués. Lyrung rocciterestesse R rotopses & colorsgarot e recupabelleinen 6-pa experien V raciusol, Haxogsuscies. 8 2005 eem electi 6 grow Torke, Hagarbarores ellpersony Tota: $\frac{dx^4}{v^4} = \frac{dx^2}{v^2} = \frac{dx^3}{v^3} = d\lambda - ypabreexens$ That is presented to the second sec doe = Tr (2) Byp-reigx (1) t-uspecerethias; 6 yp. (2) t - napones p. OrceBuguo, reto, econe V re zalence; om t (Turestelle ciargeorgapho), To destreey TOKG 4 Theoryofices Colonagaron. Tokagare, reip leure V:= 9(t) vil TO merces Toka u That Tques cobugging

D'ENZOP CROPOCTER JEGOPHEREGIER -2-Blegi'us Boneseeinunge xoprestiere Terry gloencerneus - Terryop cropresties ge goog encugair encugado Sigcio 6 ecenereit to 3 1 8 rackers, 49x0gesteronics Mo 67. No recelle Exposs Jo, & reactify HOXO_ GRUSCACA & 7. Me recelet crepain V V (\$t) - Hengesporters, goes. rescente pag guapperentes gymes S - eincretal Tong 4 (3) $\bar{v} = \bar{v}_{o} + \frac{\partial \bar{v}}{\partial x^{i}} - 2 nephorx receives 6 pagarecoreces$ Reise 9 Ecoly Bertion CO = 1 pot 5 4 Arynogum T= = Vijsist, rge Vij = f (Vij + Vij), TO (3) сполено даниечто так V=Vo+[co,F],+grad P 200 gropregge pacefrezerese enothe Thepgow Teebs (uper glownessremeny Torrances 3 Haven P Chargeto e geopher curries

 $v_{i} = \frac{1}{2} \left(\frac{\partial v_{i}}{\partial c_{i}} + \frac{\partial v_{i}}{\partial c_{i}} \right) + (4)$ Hazerbarot Tenzopar exprecien ge populações, Vij= Vi, mostoreey 4707 TEMBER SURRENO refulbrets F gusrondels Hoery begg (3) Corcuspiras respectivefuerciums p(x,t)-ucertinate coupse Our ygobeentapeset apabrierin repagnificação (45-coxparences essoció obsécus ofesos) (5) of + div(gv)=0 (receir of + gdivv=0) рано $v_1 = a(t)$ $v_2 = v_3 = 0$ (иростое) одверо. Носерги \overline{w} ; v_{ij} ; v_{i V11=00; V12=01; V13=0; V2=0; V33=0; V25= 05 + div(50)=25 +0=0 S=So $\mathcal{Z}_{2} = \left(\int_{0}^{\xi} g(t) dt \right) \xi_{2} + \xi_{1}$ $\mathcal{Z}_{2} = \xi_{2}$ $\mathcal{Z}_{3} = \xi_{2}$ $\mathcal{Z}_{3} = \xi_{2}$ dx = 9(t) 22 00/4=n=8

Jagara 2. V3 = - Vsix cot; V2 = V coscot; V3 =0 Hours cureus ropa es spackioques. i) d. 70 kg: $\frac{dz_{\perp}}{-Vsin\omega t} = \frac{dz_{2}}{Vcos\omega t} = dx$ (nucepol generalenie Ly ucresso ren $dx_1 = -v \sin \omega t, \lambda + C,$ $x_0 = v \cos \omega t, \lambda + C_2$ $\frac{x_1-c_1}{c}=-ts\omega t$ $\mathcal{Z}_1 - \mathcal{C}_1 = -tg \omega t \cdot (\mathcal{Z}_2 - \mathcal{C}_2)$ B rangoni enoment to - 270 upones s \mathcal{Z}_2 (c₂; c₂) 2) Thoursoury: $x_1 = + \frac{v}{\omega} eoscot + e,$ dry -- Vscilat drz - o cos wt Za = Sigat + C2 $\frac{\sqrt{2}}{2} = \sqrt{2}\cos(\omega)$ $\frac{\sqrt{2}}{2} = \sqrt{2}\left(\frac{\sqrt{2}}{2}\right)^{2} = \left(\frac{\sqrt{2}}{2}\right)^{2} - \frac{\sqrt{2}}{2}$ $\frac{\sqrt{2}}{2}\left(\frac{\sqrt{2}}{2}\right)^{2} + \left(\sqrt{2}\left(\frac{\sqrt{2}}{2}\right)^{2}\right)^{2} = \left(\frac{\sqrt{2}}{2}\right)^{2} - \frac{\sqrt{2}}{2}$ $\frac{\sqrt{2}}{2}\left(\frac{\sqrt{2}}{2}\right)^{2} - \frac{\sqrt{2}}{2}\left(\frac{\sqrt{2}}{2}\right)^{2} - \frac{\sqrt{$ 12 (c,c.) 2c, pg / w/

Dano: $V_1 = k \mathcal{Z}_2$; $V_2 = k \mathcal{Z}_4$; $V_3 = 0$ (unidea again)

Hartus: \overline{co} ; V''_{ij} ; uncuerternue une \overline{v} leertop inepreciouseries $\overline{v}(\xi, t)$; $\overline{q}(\xi, t)$ $\overline{q}(\overline{z}; t)$.

(2) DOHO: $u_1 = \xi_1(e^{k_1t} - 1), u_2 = \xi_2(e^{k_2t} - 1),$ $u_3 = \xi_3(e^{k_3t} - 1).$ $u_3 = \xi_3(e^{k_3t} - 1).$ $u_3 = \xi_3(e^{k_3t} - 1).$ $u_3 = \xi_3(e^{k_3t} - 1).$

a spacksopue.

5) Tione exprecien & Reseprobare cep & rece beg: $v_1 = \frac{bc}{a}(z_1 - z_3); v_2 = \frac{cq}{b}(z_3 - z_4); v_3 = \frac{cb}{c}(z_1 - z_3)$

(9,6,0-merosphore). Dorogais, Thatformer reactives herocene.