Sagara 1 moranae Janen yp-2 nopmansnois,

Conpuracaouseirer u enprunerouseis n'exchercien,

Kombois zagamois nap-ru: $f(t) = (e^t, e^{tt})$ hpu to = 0. 7'(t)

| V, N, B]: UW= 17'(t) , h(4) = 10-(4) Penép Prene E(4)=[54), 74) (e, 2e, 4e) (O) Tague 321, 22, Property [B(4)](4)] V(t) = 52+49+168+ (t=0) 527 J27

 $\vec{B} = [\vec{V}, \vec{N}] = [i \ j \]$ (X-1) +2/5-1)+9(2-1)=0 / hopmannes no-u -(16712,2) $(\vec{a}, \vec{\beta}, \vec{c}) := (\vec{a}, \vec{\beta}, \vec{c}) = (\vec{a}, \vec{\beta}, \vec{c})$ a, a, a, a, (2-20, a, a, a) = 0 // yp. nn.-zn,
npox. ze ny wzm. (3) 1 9-1 2-1 (8) 1 9-1 2-1 (-1) (-16) - (5-1) (2+(2-1)(-2)=0//conpmbs, 1 2 9 (8-1) + 9(1-7) +16(2-1)=0 // CANNUL.

Sugaruz rpyrenne rpslois $\overline{f}(t) = (t \cos(t \sin t, at))$ $\overline{f}(t) = \overline{f}(t) \overline{f}(t) \overline{f}(t)$ $\overline{f}(t) \overline{f}(t) \overline{f}(t) \overline{f}(t)$ Mainne epublisms $k(t) = \frac{1}{3} \frac{1}{3} \frac{1}{3}$ Zoost-truta = (cost-tsint, sint-tcost, a) $X_{i}^{"} = (-\sin t - \sin t - t\cos t, \cos t + \cos t + \cos t) - \alpha(2\cos t - t\cos t)$ $(-2\sin t - t\cos t) + 2\cos t + \cos t, 0) - 3\cos t + \cos t$ $(-2\cos t - \cos t + t\sin t) - 3\sin t - t\cos t, 0) + 6\cos t - 2\sin t$ $(-3\cos t + t\sin t) - 3\sin t - t\cos t, 0) + 3\cos t + \cos t$

a(4sint-200st) -a(2sint+00st) X-13=(atsint-2acost-2asint-atcost, 2+t) (603it-2brites++3:1+2sint+toostsint+2 teostsint+toost = \1 (3', 3'', 7'') = ($\frac{4}{34n4})(-\frac{38054}{145.5n4}) - 9(\frac{25.5n4}{14054}) - 4(\frac{55.5n4}{14054}) - 4(\frac{55.5n$ 75 htm -a (6tsint cost +t? 21 Satisticost

 $1=\sqrt{(cost+tsint)^2(sist+tcost)^2+a^2}$ 2 tsistast + 2 sint + 2 tsint cost + 2 cost + a = 5") - 102 (2 cost-ts) + a (2 sint to 0st) + t+2+4 37-47 coststut +75147)+02(4512+44 tsixtaut+12cost)+2+2+349)-102+02+2+4+2+2+2+4+2+2+2+42+412+9

1) Karian sprkning i sporperne 1) Okpajmmoceus 2) Buncoboù muu 3) F(t) = (t-sint, 1-wst, 4=1) B t=1 (2) D-ru mbre hnocked J(t)=(2t,3t+4, t2-3) Marian nombres, Bkom. remnt 27a kjortlar.