Domanence zaganne 17, Mexanusa N2 19, pt=1, m. K. Kanohureeku conpenseemur, to 69,94=4p,p5=0 Q = - P, P = 9 + Ap2 , A - const a) 1 Q, Py = 1 - P, 9 + Ap2y = -1 p, 95 = 19, py = 1 1 P, P 5 = 19 + Ap, 9+ Ap2y = 39, 95+ A 59, p3+ A 5 p2, 94+ Ax1p, p3/2 = 0 + 245 9, p4 - 2 A 59, p5 + 4 A 5 p, p5 = 0 10,07=1-p-p1=0 8) $F_1(q,Q) \rightarrow P = \frac{\partial F_1}{\partial Q}, P = -\frac{\partial F_1}{\partial Q}$ Q = P, => P = -Q - 1) P = q + A p2=q+AQ2 -Q = 2F1, 3nams, F1=-Qq+f(Qt) 9+AR2 = - 3F1 => XELECT F. = - Q9+f(Q, f) => 94 AQ2 = - (-9 + 2f(Q,t)) = 9 - 8f(Q,t) = 9+AQ2 $\frac{\partial f(Q,t)}{\partial Q} = -AQ^2 = -AQ^3 + g(b)$ 3hanus, F, (9,Q) = -Q9 - AQ3 + C, m. K. F, re jabeleur om t, ->
9 monie 8) $F_{2}(q, p) \Rightarrow p = \frac{2F_{2}}{9q}, Q = \frac{2F_{2}}{9p}$ $P = q + Ap^{2} \Rightarrow P = \sqrt{\frac{P-q}{A}}$ $Q = -p = -\sqrt{\frac{P-q}{A}}$ P - OF2 - (P-9) -> F2 = J \P-9 dg = 1 -1 (P-9) (P) = - (P-q) 1/2 2 + + (P) -112-9 = Q = 3F2 = -2 3VA · 2 (P-9) /2 + Of(P) = = - (P) = - (P) = const $F_2(q, P) = -\frac{(P-q)^{1/2}}{\sqrt{A}} \cdot \frac{2}{3} + c, c - const$

Mu Bharum, (91t) = (90 coswt + po sinwt po po coswt - gomw sinwt)) 39 (t), p(t) 3 - h go cosw++ po sintw), po cosw+- go mwin(well). = 190, pot cosewt - 390,905 · C + 3po, po + 2 - 4 po, 90 + 512 (wt) -11 = 190, pos (cos w+ + 3in w+) + 1 lt 8) F, (90, P(+),+) (90, P0) -> (9(1), P(1)) (16 nymes a) 1+2 9 (6) = 90 coswt + po sinwt => 9-90 coswt mw = po (1) p(6) + po cosut - gomes in w t -> P(t) = count mw (q-qo cosw t) - qo mw sin wt = = ctg (wt) m w (q-qo cos wt) - qo m w sin wt == offloo, qrther po + of (4) F. (qo,q,t) - qo m w q - qo ctg (wt)mt + s(qt) Y.K. P=-2F1, ro costdg(wt) mw (q- 90 cosut)+90 mw sin Wt= = 90 mw + 0 f(q,t) -> 3f(q,t) =-mwqctg(wt) + qo coswtmw + 90 mwsin²wt - 90mw f(9,+) = - g mw clg (wt)+c, c-const 3 Harum, F. (90,9, t) = 90 mwg - 90 ctglwt) mtv g mwctglwt)+ ca





