

Ти. колебание затуханицие э Имех, уменимается 2 Whex - d (m (x 2 us + x 2)) = m (us x - x + x x) = mx (wox + x) = = mx (-2px) = - xx <0 5) Pych, X = e Xt Handen pemerne ypahnenne 12 + 2B1 + W0 = 0. Ay2 = -2/3 ± 2/32-W3 = -B ± 1/82-W21 Pemerne ypaluenus X = C3 e Ast + Cae + C4 e (P + JB2 - Wo2) t + C2 e (P - JB2 Wo2) t = e - B t (Cs e t V B 2 - W2) + C2 e - t 1 B 2 - W3 2) C1-C2 =const б) Рормура Эйрера: e int = cos(wt) + isin(wt) Konevanux cycupembyom pou $\beta^2 - \omega_0^2 = 0$ $\omega_0^2 - \beta^2 = \omega^2 = \sqrt{\beta^2 - \omega_0^2} = i\omega$ Pemenne ypabulaus X + Aoe BL sin (W+ 21) w = 1002-B21 T = 2# = 2# 2#

