A-08-19 banacios. C.A. Muhoboed pacrét 124 Tucreteno pecuciós sagary Kouci gra ODY 1-20 rapsigna na orpesse (80, 6, 40,8] e maron hzo, 2: a) merogon Finepa

2-20 noprigka (f(6,9)=-96gt+26cost, 10;0,8] a) Merog Fünepa: gan + h. f (tm, yu) g= go +h.f(50, go) = 2+0,2 (-2.5g(0)+2.0.cos(0))= 2 g2= g,+h.f(t,,y,)2 2+0,2(-2.tg(0,2)+2.0,2.cos(0,2))= 1,997321 432924h.f(62,42)21,997321+0,2(-2.69(0,4)+2.0,4.005(94)= = 7,997321 = 1,925800 yy= y3+h,f(t3,y3)=1,9758+0,2(=1,9758-6g(0,6)+2.06.cos(0,4)= 21,903537 y 0, 2 = 2 2 1, 99 7321 1,975800 (1,903532/ 8) Merog PSHZE-KSTV61 2-20 nopagka! gnor= 3 gn+h. f (ton+ 2; yn+ 2 f (ton, gn))

g, 2 go + h. f (to + 2) go + 2 f (to, go) = 2+0,2f(8,1; 2)2 = 2+0,2 (-2 tg(0,1)+2.0,1.cos(0,U)=1,999666 9229, +h.f(t,+1; y,+2f(t,j,1) = 1,993666+0,2.f(0,3) 1,999666 + 0,1 f (4,9996664) = 1,999666+0,2 f (0,3 ; 1,998533) = 1,999666+0,2(-1,99853359(0,3)+2.0,3.005(0,3)]21,990675 y 2 y 2 th. f (t2 + 2, y 2 + 2 f (E2; y2) = 1,99067500,2. f (0,5; 1,990675+ +fo,1f(0,4; 1,990675))=1,990675+0,2.f(0,5; 1,980195)2 = 1,990675+0,2 (-1,98019569(0,5)+2.0,5.00s(0,5))=1,999834 = y = y3 +hf (t3+1) y3+1 f(t3; y3) z 1,949834+0,2f(0,7; 1,949834+ + 0,1 f(0,6;1,989834)) = 1,949834+0,2 f(0,7;1,915479)= = 1,949834+0,2(-1,915479tg(0,7)+2.0,7.cos(0,7))=1,841313 · To 912 = 1,999666 1,949834 · Portoe penierne sagaru Koucu: y = - 4 tg(t) + 2t cos(t) y(t)20,005(t)+t cos(t) npu yoz =2 y(6) = 2.cos(t)+ t cos(8)

. Оченка погрешноста методов по правилу Рянге: a) y, = 90 + 12 f (to, 90) = 2+0,4(-2-tg(0)+2.0.cos(0))=2 Ra 182 834 1 2 11,992321-21 20,002679 8) y, 2 yo + h2 f(to + h2, yo + h2 f(to jgo)) 22+0,4 f(0,2; 2+ + 0, 2 f(0; 2)) = 2+0, 4 f(0,2; 2) = 2+0, 4(-2 tg(0,2)+2-0,2·cos(0,2))= =1,999643 R 2 1 30x2 - 3 RK2 | 2 11,99 0675 - 1,994683 | = 0,00132267

