7. 1 cnocod Kradko Bow 4'(t)-94(+)+204(+)=4+5; 4(0)=4; 4(0)=5  $\dot{y}(t) = \dot{y}(t, u) + \sum_{i=1}^{(4,u)} (t) + \sum_{i=1}^{(4)} (i) +$ 4(+)-94'(+)+204(+)=0 D=81-80=1; 2= 5=54(+)=0 Morgraeu: 4(+)=4(+)+C1B+C20 4(+) - 94(+) +204(+) = 4++5=>0-9A+26

Kradroboa 47. I cnocos (1"(+) - 9y(+) + 20y(+) = 4t +5 ; y(0)=4; y(0)=5 y"(+)-Dy(+)+20y(+)=0; y'(+)=e"-> XapakTepuu. yp.= 12-97+20=0 D=81-80=1 A12=9+1=15 9,(4)=3 4(+)= C(+)e5+ C(+)e" y'(+)=56,(+)e5+46,(+)e+6,(+)e5+6,(+)e 9'(+) =56,(+)e5+46,(+)e4+ y'c+)=25P1(+)e5+16C2(+)e4+5C(+)e5+4C2(+)e4+ 25C(+)e5+16C2(+)e4+5C1(+)e5+4C2(+)e4+9(5C1(+)e5+4C2(+)e4)+20C(+)e4+20C(+)e4 = 4++5; C(+)e5+25-45+20)+C2(+)e4/6+36+20)+5C,CH05+4C2(+)e4+45 E 5C,(+)e5+4C,(+)e5=4++5 '5C,(+)e5+462(+)e=4++5 | C,(+)e5=4++5 | C,(+)=4+3 C,(+)e5+C;(+)e=0 4+15 (2(+)e1=-(1+)e5+ 2(2(+)=4+5) Posynaeu: C,(+)= =57, C2(+)= +15 Posynaeu: C,(+)= =57, C2(+)= +15  $C_1(+) = C_1(0) + C_2(0) + C_3(0) + C$ C2(+) = C2(0) + = C2(0) + 2en + 3 - 3  $\begin{aligned} &y(t) = e^{5\frac{t}{4}}(C_{4}(0) + \frac{20t}{25e^{3t}} - \frac{29}{25e^{5t}} + \frac{29}{25}) + e^{4t}(C_{2}(0) + \frac{2t}{2e^{4t}} + \frac{3}{2e^{4t}}) \\ &= e^{5\frac{t}{4}}(c_{4}(0) + \frac{20t}{25} - \frac{29}{25} + \frac{29}{25}e^{5t} + e^{4t}C_{2}(0) + \frac{2t}{2} + \frac{3}{2} - \frac{3}{2}e^{4t} \\ &= e^{5\frac{t}{4}}(c_{4}(0) + e^{5\frac{t}{4}}(c_{4}(0) + \frac{1}{2}c^{4t} + \frac{1}{$ y(0) = C,(0) + C2(0) + 1 = 29 + 3 = 4 4 (co) = 5C, (0) + 4 C200) + 5 + 145 - 6 = 5

1+C2(0)=4 5C(0)