Dagara lagare la cregnere tamposee votre:  $P_0(0,0), P_1(0,\frac{1}{4}), P_4\left(\frac{1}{2},\frac{1}{2}\right), P_3\left(1,\frac{1}{4}\right), P_4\left(1,0\right).$ 

а) дамишете уравнението на сривата на везие С(и), дефинирана през запрените точки.

Peneme:

((u) = Bu,o(u)Po+ Bu, (u) Pn+Bu, 2 P2+ Bu,3(u)P3+Bu,u(u)P4

$$(\lambda u) \cdot b_{u,0}(u) P_{0} + b_{u,1}(u) P_{1} + b_{u,2}(u) P_{2} + b_{u,3}(u) P_{3} + b_{u,4}(u) P_{4}$$

$$(\lambda u) \cdot (\lambda u)^{4} |00| + 4\mu (\lambda u)^{2} |0| \cdot \frac{1}{4} + 6u^{2} |1 - u|^{2} |\frac{1}{4} \cdot \frac{1}{4} + 4u^{2} |1 - u|^{2} + \frac{1}{4} u^{3} |1 - u|^{2} |1 - u|^{2} + \frac{1}{4} u^{3} |1 - u|^{2} |1 - u|^{2}$$

в) Урез аморитона на доо кастенно, намерете тоега от цивоста Oborbarna na Uz 0,4 Puneaue:  $P_{0}(0,0) = P_{1}(0,\frac{1}{1}) + P_{10}(0,\frac{1}{10}) + P_{20}(\frac{2}{35},\frac{1}{5}) + P_{30}(\frac{2}{125},\frac{1}{500}) + P_{30}(\frac{2}{125},\frac{1}{500}) + P_{40}(\frac{2}{125},\frac{1}{500}) + P_{40}(\frac{2}{12$ => 0(04)= (0,352; 0,2946) W=014=4=2 , 1-U=1-0,4=06=6=3

$$P_{10z}(1-u)P_{0}+uP_{1}=\frac{3}{5}(0,0)+\frac{1}{5}(0,\frac{1}{4})+\frac{2}{5}(\frac{1}{4},\frac{1}{4})=\frac{2}{5}(0,\frac{1}{4})+\frac{2}{5}(\frac{1}{4},\frac{1}{4})=\frac{2}{5}(0,\frac{1}{4})+\frac{2}{5}(\frac{1}{4},\frac{1}{4})=\frac{2}{5}(0,\frac{1}{4})+\frac{2}{5}(\frac{1}{4},\frac{1}{4})=\frac{2}{5}(0,\frac{1}{4})+\frac{2}{5}(\frac{1}{4},\frac{1}{4})=\frac{2}{5}(0,\frac{1}{4})+\frac{2}{5}(\frac{1}{4},\frac{1}{4})=\frac{2}{5}(0,\frac{1}{4})+\frac{2}{5}(\frac{1}{4},\frac{1}{4})=\frac{2}{5}(0,\frac{1}{4})+\frac{2}{5}(\frac{1}{4},\frac{1}{4})=\frac{2}{5}(0,\frac{1}{4})+\frac{2}{5}(\frac{1}{4},\frac{1}{4})=\frac{2}{5}(0,\frac{1}{4})+\frac{2}{5}(\frac{1}{4},\frac{1}{4})=\frac{2}{5}(0,\frac{1}{4})+\frac{2}{5}(\frac{1}{4},\frac{1}{4})=\frac{2}{5}(0,\frac{1}{4})+\frac{2}{5}(\frac{1}{4},\frac{1}{4})=\frac{2}{5}(0,\frac{1}{4})+\frac{2}{5}(\frac{1}{4},\frac{1}{4})+\frac{2}{5}(\frac{1}{4},\frac{1}{4})=\frac{2}{5}(\frac{1}{4},\frac{1}{4})+\frac{2}{5}(\frac{1}{4},\frac{1}{4})+\frac{2}{5}(\frac{1}{4},\frac{1}{4})=\frac{2}{5}(\frac{1}{4},\frac{1}{4})+\frac{2}{5}(\frac$$

$$P_{13}=(1-u)P_{3}+uP_{4}=\frac{3}{5}(1-\frac{1}{4})+\frac{1}{5}(1-\frac{3}{5})=(\frac{3}{5}+\frac{1}{5},\frac{3}{20})=(1-\frac{3}{20})$$

Γ) Pozoserer equivara (u) μρι u ε0.4 u μος pegere νουσρονιαιτέ Τουμ μα gleure gene.

Permenne: (u): uετο; a41 - Po(a0), Pi0(a1), Pa0(a2, a3), Pa0(a3, a5), Pa0(a6, a5), A500). (a): uετο; a41 - A6(a0), A60(a1), A80(a2, a3), A80(a3), A80(a3), A80(a3), A80(a8), A80(a8), A80(a8), A80(a8), A80(a8), A80(a8), A80(a8), A80(a8), A8), A80(a8), A8), A8), A8), A8), A8), A9), A

E) Epg specializate ha tarjanza overa 
$$P_{2}$$
 b  $P_{2}^{k}(\frac{1}{2},\frac{1}{3})$ 

Ranger fa beau mosta newly  $C(0,4)$  is  $C^{k}(0,4)$ .

Prince for  $P_{2} \rightarrow P_{2}^{k}$ 
 $C^{k}(0,4) = C(0,4) + 842(0,4)$ .

 $V = P_{2}^{k} - P_{2} \cdot (\frac{1}{2},\frac{1}{3}) - (\frac{1}{2},\frac{1}{2}) = (0,-\frac{1}{6})$ 
 $S_{11,2,1} \cdot (\frac{1}{5})^{2} \cdot (\frac{1}{5},\frac{1}{3}) \cdot (\frac{1}{2},\frac{1}{2}) = \frac{316}{625}$ 
 $S_{12}(0,4) = \frac{316}{625}$ 
 $C(0,4) = (\frac{320}{625}, \frac{3444}{2500}) + \frac{316}{625}(0,-\frac{1}{6}) = (\frac{320}{625}, \frac{3444}{2500}) + (0,-\frac{345}{2350})$ 
 $C^{k}(0,4) = (\frac{320}{625}, \frac{3444}{2500}) + \frac{316}{625}(0,-\frac{1}{6}) = (\frac{320}{625}, \frac{3444}{2500}) + (0,-\frac{345}{2350})$ 
 $C^{k}(0,4) = (\frac{320}{625}, \frac{3444}{2500}) + \frac{316}{625}(0,-\frac{1}{6}) = (\frac{320}{625}, \frac{3444}{2500}) + (0,-\frac{345}{2350})$ 

C\* (0,4) = (0,352; 0,24)

#) Hampere C(0,4) u C(0,4). Rusenue: C(u) = n [Pn-1,1 - Pn-1,0], C(u)-n.(n-1) [Pn-2,2- 2Ph-2,1 + Pn-2,0] Bramma chicam n=A C(Q4) = 4[P31-P30] = 4[ (\frac{\frac =4 [ (\frac{11}{31} - \frac{125}{125}, \frac{121}{125} - \frac{125}{125}] = 4 [\frac{125}{125}, \frac{684}{684} - \frac{125}{125}] = 2  $= 4\left(\frac{9}{45}, \frac{580}{500}\right) = 4\left(\frac{9}{35}, \frac{11}{10}\right) = \left(\frac{36}{35}, \frac{44}{10}\right)$ => c(0,4)= (36; 44) = (1,44; 4,4) "C(Q4)=43[P22-2P21+P2w]= 12[(H1/BO, 10)-2(2, 87/10)+(2/25, 4)]=  $= 10 \left[ \frac{1}{5}, \frac{3}{100} \right] + \left( \frac{2}{25}, \frac{1}{5} \right)$ = 12 ( 41 - 4 + 1 ) = 100 + 1) =  $= 18 \left( \frac{1}{10}, \frac{-\lambda 4}{100} \right) = \left( \frac{12}{10}, \frac{-\lambda 88}{100} \right)$ => C(0,4) = (1,2, -2,88)