δαρνα. Λασειο ε τριδα μα βεχιε. βεφιμιβανο τρεβ κατρο-
Μιπε τοτια:

$$P_{0}(0,0), P_{1}(-2,-2), P_{2}(-2,2), P_{3}(2,2), P_{4}(2,-2), P_{5}(0,0)$$

α) Μαμερίε τοτιατα σι τριβατα ισοί εστια μα $21 = \frac{1}{4}$, ερεβ
Ωποριτεία μα βρο Κατοιμο. (Ματερατίτε μρεμιατα μα $21 = \frac{1}{4}$, ερεβ
Θεωειμε: $U = \frac{1}{4}$, $\lambda - U = 1 - \frac{1}{4} = \frac{3}{4}$
 $P_{0}(0,0), P_{1}(-2,-2), P_{2}(-2,2), P_{3}(2,2), P_{4}(2,-2), P_{5}(0,0)$
 $P_{1}(-2,-2), P_{5}(-2,2), P_{5}(2,2), P_{6}(2,2), P$

P14 = 3P4 + 1P5 = 3 (2, -2) + 1 (0,0) = (6 1 - 6) Scanned with CamScanner

P13=3 P3+ 1 P4= 3 (2,2)+1 (2,-2)= (8,4)

$$Q_{1} = \frac{1}{6}P_{0} + \begin{pmatrix} 1 - \frac{1}{6} \end{pmatrix} P_{1} = \frac{1}{6} \begin{pmatrix} 0 \cdot 0 \end{pmatrix} + \frac{5}{6} \begin{pmatrix} -\lambda_{1} - \lambda_{2} \end{pmatrix} = \begin{pmatrix} -\frac{10}{6}, -\frac{10}{6} \end{pmatrix} = \begin{pmatrix} -\frac{5}{3}, -\frac{5}{3} \end{pmatrix}$$

$$Q_{2} = \frac{\lambda}{6}P_{1} + \begin{pmatrix} 1 - \frac{\lambda}{6} \end{pmatrix} P_{3} = \frac{\lambda}{6} \begin{pmatrix} -\lambda_{1} - \lambda_{2} \end{pmatrix} + \frac{1}{6} \begin{pmatrix} -\lambda_{1} \lambda_{2} \end{pmatrix} = \begin{pmatrix} -\frac{1}{4} - \frac{8}{6}, -\frac{1}{4} + \frac{8}{6} \end{pmatrix} = \begin{pmatrix} -\frac{12}{6}, \frac{1}{4} \end{pmatrix} = \begin{pmatrix} -\lambda_{1} \frac{1}{3} \end{pmatrix}$$

$$Q_{3} = \frac{3}{6}P_{2} + \begin{pmatrix} 1 - \frac{3}{6} \end{pmatrix} P_{3} = \frac{3}{6} \begin{pmatrix} -\lambda_{1} \lambda_{2} \end{pmatrix} + \frac{3}{6} \begin{pmatrix} \lambda_{1} \lambda_{2} \end{pmatrix} = \begin{pmatrix} -\frac{6}{6} + \frac{6}{6} \end{pmatrix} = \begin{pmatrix} 0, \frac{12}{6} \end{pmatrix} = \begin{pmatrix} 0, \frac{12}{6} \end{pmatrix} = \begin{pmatrix} 0, \frac{12}{6} \end{pmatrix}$$

$$Q_{1} = \frac{1}{6}P_{3} + \begin{pmatrix} 1 - \frac{1}{6} \end{pmatrix} P_{4} = \frac{1}{6} \begin{pmatrix} \lambda_{1} \lambda_{1} + \frac{\lambda}{6} \begin{pmatrix} \lambda_{1} - \lambda_{2} \end{pmatrix} = \begin{pmatrix} \frac{3}{6} + \frac{14}{6} & \frac{3}{6} - \frac{14}{6} \end{pmatrix} = \begin{pmatrix} \frac{12}{6}, \frac{14}{6} \end{pmatrix} = \begin{pmatrix} \lambda_{1} & \frac{1}{2} \end{pmatrix}$$

$$Q_{5} = \frac{5}{6}P_{4} + \begin{pmatrix} 1 - \frac{1}{6} \end{pmatrix} P_{5} = \frac{5}{6} \begin{pmatrix} \lambda_{1} - \lambda_{2} \end{pmatrix} + \frac{1}{6} \begin{pmatrix} 0, 0 \end{pmatrix}_{2} \begin{pmatrix} \frac{10}{6}, -\frac{10}{6} \end{pmatrix} = \begin{pmatrix} \frac{5}{3}, -\frac{5}{3} \end{pmatrix}$$
Scanned with CamScanner

O Magna Jaerer epubara (lu) npu u-1, νοσο πορρεσιτιε κανπροπιιπε ποτι μα βωτε ρεπι 6 πρωθυπιι peg.

Cilu): U+ [0, 1] - Po(00), Pro(-2, -2), Pro(-14, -10), Pro(-40, -34), Pro(-298, -82), Pro(-1138, -48)

(26/11): 11+[1/4,1]-Bo(1138-188), Pul (244/356), Pul (256/356), Pul (20,-78/56), Pul (20,-64), Pul (20,-66), Pul (

с) впредлете степента на радената прива и я увештете с единица.

нашерьте навать вонтрани почен и начеряныть новия конпромен

Polo,0), P1(-2,-2), P2(-2,2), P3(2,2), P4(2,-2), P5(0,0)

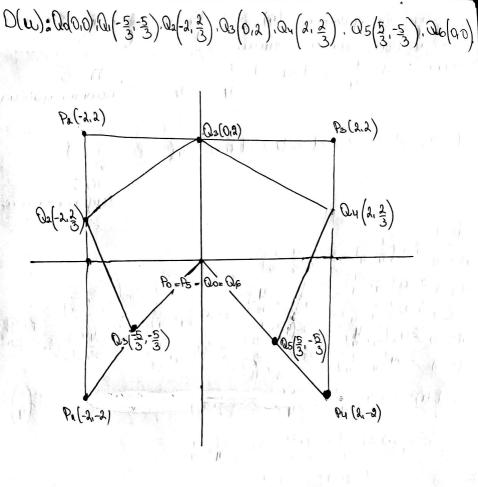
Qi= 1 Pi-1 + (1-1) Pi , i= 1,2,3. 5.

Emonno:

N=5 -> 6.

Qo => Qo(0,0)

Q6= P5 => Q6 (0.0)



3. ?
$$\frac{1}{3}$$
 G-Hamp. \iff $\overset{\circ}{C}(0)$? $\overset{\circ}{C}(1)$

$$\overset{\circ}{C}(0) = \overset{\circ}{L}\overset{\circ}{C}(1) \Rightarrow > (-10, -10) \neq \overset{\circ}{L}(-10, 10) \Rightarrow > \overset{\circ}{C}(0) \text{ is } \overset{\circ}{C}(1) \text{ for } c$$

$$\Rightarrow \overset{\circ}{A} \text{ G-Hamp.}$$
4. ? $\overset{\circ}{C}^2$ -Hamp. $\overset{\circ}{C} \Rightarrow ? \overset{\circ}{C}(0) = \overset{\circ}{C}(1)$

$$\overset{\circ}{C}(0) = \overset{\circ}{S} \text{ if } [P_3 - \overset{\circ}{A}P_1 + P_0] = \overset{\circ}{A} \overset{\circ}{C}[(-\overset{\circ}{A},\overset{\circ}{A}) - \overset{\circ}{A}(-\overset{\circ}{A},-\overset{\circ}{A}) + (0,0)] = (+0,120)$$

$$\overset{\circ}{C}(1) = \overset{\circ}{S} \text{ if } [P_5 - \overset{\circ}{A}P_1 + P_3] = \overset{\circ}{A} \overset{\circ}{C}[(0) - \overset{\circ}{A}(\overset{\circ}{A},\overset{\circ}{A}) + (\overset{\circ}{A}\overset{\circ}{A})] = (-40,120)$$

$$\overset{\circ}{C}(0) & \overset{\circ}{C}(0) & \overset{\circ}{C}(1) \Rightarrow \overset{\circ}{A} \overset{\circ}{C}^2 - \text{Hamparachariod.} \Rightarrow \overset{\circ}{A} \overset{\circ}{G}^2 - \text{Hamp.}$$
5. ? & Hampar. $\overset{\circ}{C} \Rightarrow \overset{\circ}{A} \overset{\circ}{C}^2 - \overset{\circ}{A} \overset{\circ}{C} \overset{\circ}{C} - \overset{\circ}{A} \overset{\circ}{C} - \overset{\circ}{A} \overset{\circ}{C} \overset{\circ}{C} -$

d) Проводеть дани радената грива с C'-, C2-, G-, G-) ex Умочние непреченности в (0,0).

 $1.00 = 000 = P_0(0.0) = P_0(0.0)$

Clo) = 5. [P,-Po] = 5. [(-2,-2)-(0,0)] = 5. (-2,-2) = (-10,-10)

((1)=5. [P5-P4]=5[(00)+(2-2)]=5(-2,2)=(-10,10)

=> $\mathring{C}(0)$ \neq $\mathring{C}(1)$ => \neq \mathring{C} -kunperschatoa 6 Torrana ha cseguhalane

Po(0,0), P1(-2,-2), P2(-2,2), P3(2,2), P4 (2,-2), P5(0,0)

2. ? 7 C-nemperomazou (=>? C(0) = C(1)

. uffoil] , 4.5.

$$|\dot{c}(1)|_{=} |(-10)^{2} + 10^{2} + 0^{2} = 10 | \frac{1}{3} |$$

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$$|\dot{c}(1)|_{=} |(-10)^{2} + 0^{2} =$$

(c,01-,01-) -(0)3

C(0)=(40,120,0)

 $C(0) \times C(0) = \left(\begin{vmatrix} -10 & 0 \\ 120 & 0 \end{vmatrix}, -\begin{vmatrix} -10 & 0 \\ 40 & 0 \end{vmatrix}, \begin{vmatrix} -10 & -10 \\ 40 & 120 \end{vmatrix} \right) = (0, 0, -800)$

C(0)=(-10,-10)

C(0)= (40,120)

 $|\dot{c}(0)| = \sqrt{(-10)^2 + (-10)^2 + 0^2} = 10\sqrt{3}$

 $|\dot{c}(0) \times \dot{c}(0)|_{z} |0^{2} + 0^{2} + (-800)^{2} = 800$

 $\&clo) = \frac{|\dot{c}(o) \times \dot{c}(o)|}{|\dot{c}(o)|^3} = \frac{800}{(10 \, \text{fz})^3} = \frac{12}{5}$

c(1)= (-10,10) -> c(1)= (-10,10,0)

C(1) = (-40,120) -> C(1) = (-40,120,0)