Б-стайн циви.

acques bejob cereop:

a) W={0:0,2;0,5;0,6;0,8;1}

8) U= {0:0,2;0,4;0,5;0,5;1}

Решение ; порожения в тобиную:

10 | U1 | U2 | U3 | U4 | U5 0 | 0,2 | 0,6 | 0,8 | 1

Benen prèser u béribédereme prombogazemen mischporm

$$V_{3,1}(u) = \frac{u - u_3}{u_3 - u_3} V_{3,0}(u) + \frac{u_4 - u}{u_4 - u_3} V_{3,0}(u)$$

$$= \frac{\mathcal{U} - 0.5}{0.6 - 0.5} V_{3.0}(u) + \underbrace{0.8 - u}_{0.8 - 0.6} V_{3.0}(u)$$

$$= \frac{U - 0.5}{0.1} \, \mathcal{V}_{3,0}(u) + \underbrace{0.8 - U}_{0.9} \, \mathcal{V}_{30}(u)$$

=> 
$$\mu_{311}(u)$$
 =  $\begin{cases} 5(3u-1), and u \in [0.5;0.6) \\ (u-5u), and u \in [0.6;0.8) \end{cases}$ 

$$= \frac{1 - 0.6}{1 - 0.8} \text{ Point}(u) + \frac{1 - 1}{1 - 0.8} \text{ Phio}(u)$$

= 
$$5(u-06)V_{3,0}(u) + 5(1-u)V_{4,0}(u)$$

$$= \frac{u - 0.5}{0.3} V_{\lambda 11}(u) + \frac{1 - u}{0.4} V_{\delta 11}(u)$$

$$= \frac{10}{3} (u - 0.5) V_{\lambda 11}(u) + \frac{10}{4} (1 - u) V_{\delta 11}(u)$$

$$= \frac{5}{3} (\lambda u - 1) V_{\lambda 11}(u) + \frac{5}{2} (1 - u) V_{\delta 11}(u)$$

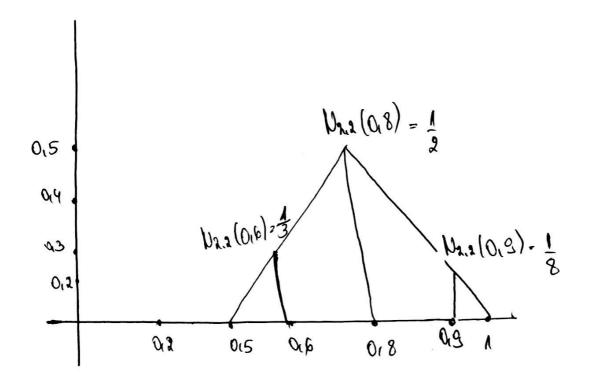
$$= 7$$

$$\frac{1}{2} \frac{1}{3} (2u-1) \cdot \frac{5}{3} (2u-1) = \frac{25}{3} (2u-1)^{\frac{9}{3}}$$
 npu  $u \in [0.5], 0.6)$ 

a) 
$$ya \ u \in [0.6;0.8] \ ba_{11}(u) = 4-5u \ u ba_{11}(u) = 5u-3 = paneirone for ba_{12}(u) = \frac{5}{3}(3u-1).(4-5u) + \frac{5}{2}(1-u).(5u-3) = ba_{12}(u) = \frac{3}{6}(50u-35u^2-14) \quad \text{fig. } u \in [0.6;0.8)$$

3) 
$$y_0 u \in [0,8;1]$$
,  $|v_{\lambda 1}|(u)_{=0}$ ,  $|v_{\lambda 1}|(u)_{=0}$  = 5-5u ->gauedbaue bæl  $|v_{\lambda 1}|(u)_{=0}$  =  $\frac{5}{3}(1-u)v_{31}(u)_{=0}$  =  $\frac{5}{3}(1-u)(5-5u)_{=0}$  =  $\frac{25}{3}(1-u)^2$  upu  $|u \in [0,8;1]$ 

$$=> V_{2,2}(u)_{z} \begin{cases} \frac{25}{3}(2u-1)^{2}, & \text{and } u \in [0.5, 0.6) \\ \frac{5}{6}(50u-35u^{2}-14), & \text{and } u \in [0.6, 0.8) \\ \frac{25}{3}(1-u)^{2}, & \text{and } u \in [0.8;1]. \end{cases}$$



$$N_{\lambda,2}(0.6) = \frac{5}{6}(50.0.6 - 35.(0.6)^{2} - 14) = \frac{1}{3}$$

$$N_{\lambda,2}(0.8) = \frac{25}{2}(1 - 0.8)^{2} = \frac{1}{2}$$

$$N_{\lambda,2}(0.9) = \frac{15}{2}(1 - 0.9)^{2} = \frac{1}{8}$$

$$\begin{cases} (u+iu), & (u+iu) \\ (u+iu), & (u+iu) \end{cases}$$

Duolu) = 0 ja busus we Tor, 1].

2. 
$$N_{\lambda,n}(u) = ?$$
,  $N_{3,n}(u)_{2}?$   
 $N_{i,p}(u) = \frac{u - u_{i}}{u_{i+p-1}} N_{i,p-1}(u) + \frac{u_{i+p+n} - u}{u_{i+p+n} = u_{i+n}} N_{i+n}, p_{-n}(u)$ 

$$|| \lambda_{2,n}(u)||_{2} = \frac{u - u_{2}}{u_{3} - u_{2}} || \lambda_{2,0}(u) + \frac{u_{4} - u_{3}}{u_{4} - u_{3}} || \lambda_{3,0}(u)$$

$$= \frac{u - 0.2}{0.4 - 0.2} || \lambda_{2,0}(u) + \frac{0.5 - u_{4}}{0.5 - 0.4} || \lambda_{2,0}(u)$$

$$= \frac{U - 0.2}{0.2} V_{2.0}(u) + \frac{0.5 - u}{0.1} V_{3.0}(u)$$

$$= \frac{10(u-0.2)\nu_{20}(u) + 10(05-u)\nu_{30}(u)}{1}$$

$$= \frac{u - ay}{a_5 - a_1y} |_{b_3,0}(u) = \frac{u - a_1y}{a_1y} |_{b_3,0}(u) = \frac{10}{10} (u - a_1y) |_{b_3,0}(u)$$

$$=> \mathcal{W}_{3,N}(u) = (\mathcal{M}u - \mathcal{U}) \mathcal{V}_{3,O}(u)$$

$$=\frac{U-0.2}{0.3}$$
  $V_{2.1}(u) + \frac{0.5-U}{0.1}$   $V_{3.1}(u)$ 

$$= \frac{10}{3} (u - 0.2) V_{2,1}(u) + 10 (0.5 - u) V_{2,1}(u)$$

$$=\left(\frac{10}{3}u - \frac{1}{3}\right) |\lambda_{11}(u) + (5-10u) |\lambda_{311}(u)$$

$$V_{\lambda,2}(u)_{z} = \frac{1}{3}(5u-1).5.(1-2u) + 5(1-2u).(10u-4)$$

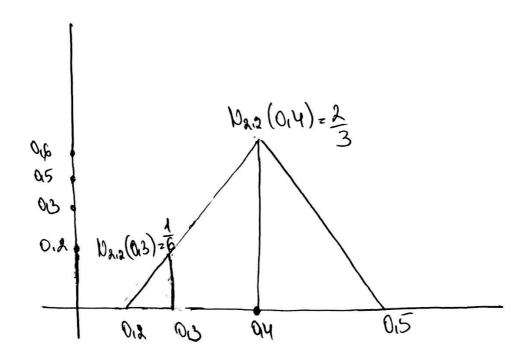
$$=5(1-2u)\left(\frac{2}{3}(5u-1)+10u-4\right)$$

$$=5(1-2u)\left(\frac{10}{3}u-\frac{2}{3}+10u-4\right)$$

$$= 5(1-2u)\left(\frac{40u-14}{3}\right) = \frac{5}{3}\left(40u-14-80u^2+28u\right)$$

$$=\frac{5}{3}\left(-80u^{2}+68u-14\right)=\frac{10}{3}\left(-40u^{2}+34u-4\right)$$

=> 
$$l_{\lambda,2}(u)$$
 =  $\int_{3}^{2} (5u-1)^{2}$ , and  $u \in [0,2], 0, u$ )  
 $\frac{10}{3} (-40u^{2} + 34u - 4)$ , and  $u \in [0,4], 0,5)$ 



$$V_{2,2}(0,3) = \frac{2}{3}(5.0,3-1)^2 = \frac{1}{6}$$
  
 $V_{2,2}(0,4) = \frac{10}{3}(-40,0,4)^2 + 34.0,4-4) = 2$