(3.)
$$b_{i,m}(u) = \binom{m}{i} (1-u)^{m-i} u^{i}$$

 $\frac{2u}{m} = 3 : b_{i,3}(u) = \binom{3}{i} (1-u)^{3-i} u^{i}$

Baza f=je su Bernstein polinomi stupnja m=3:

$$b_{0}(u) = (1-u)^{3}$$

$$b_{1}(u) = 3u(1-u)^{2}$$

$$b_{2}(u) = 3u^{2}(1-u)$$

$$b_{3}(u) = u^{3}$$

$$b_{3}(u) = u^{3}$$

2a proizeubini ue [0,15 i ri=(1-u)pi+Upi+1, i=0,1,2 si=(1-u)ri+Uri+1, i=0,1 $to=(1-u)so+Us_1$

viryedi
$$f(u) = to$$
.
 $to = (1-u) s_0 + u s_1 =$

$$= (1-u) ((1-u) r_0 + u r_0) + u ((1-u) r_1 + u r_2)$$

$$= (1-u)^2 r_0 + 2u (1-u) r_1 + u^2 r_2 =$$

$$= (1-u)^2 ((1-u) p_0 + u p_1) + 2u (1-u) ((1-u) p_1 + u p_2) + u^2 ((1+u) p_2 + u p_3)$$

$$= (1-u)^3 p_0 + 3u (1-u)^2 p_1 + 3u^2 (1-u) p_2 + u^3 p_3 = T(u)$$

W