



SEA AIR d.o.o.

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3. Za $u \in [0, 1]$ vrijedi

$$r_i = (1-u)r_i + ur_{i+1}, \quad i = 0, 1, 2$$

$$s_i = (1-u)r_i + ur_{i+1}, \quad i = 0, 1$$

$$t_0 = (1-u)s_0 + us_1$$

$$f(u) = t_0$$

$$b_0(t) = (1-t)^3$$

$$b_1(t) = 3t(1-t)^2$$

$$b_2(t) = 3t^2(1-t)$$

$$b_3(t) = t^3$$

$$f(u) = b_0(u)p_0 + b_1(u)p_1 + b_2(u)p_2 + b_3(u)p_3$$

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

$$t_0 = (1-u) \cdot ((1-u)r_0 + ur_1) + u \cdot ((1-u)r_1 + ur_2)$$

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

$$= (1-u)^2 ((1-u)p_0 + up_1) + 2u(1-u)((1-u)p_1 + up_2)$$

$$+ u^2((1-u)p_2 + up_3) = (1-u)^3 p_0 + u(1-u)^2 p_1 + 2u(1-u)^2 p_1 + 2u^3(1-u)p_2$$

$$+ u^2(1-u)p_2 + u^3 p_3$$

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

$$= f(u)$$