NEVILLOV ALGORITMUS UZLOVÉ BODY: XO, XA, X, ODPOVEDAJÚCE FUNKENÉ HODNOTY: 40,41,42 STUPEN POLYNOMU JUTERPOLACIE p(x): [m=2] INTERPOLATIVÉ POLYNÓMY: $0 \le i < j \le m$: $P_{i,j}(x) = (x - X_j) P_{i,j-1}(x) - (x - X_i) P_{i+1,j}(x)$ 0=i=m: Pi, i=yi [HCADAH p(x) prp x=-1] Poo(x)=y=3 Py(x)=4=-5 P2(x)=4=4 $P_{0,1} = \frac{(x-x_1)P_{0,0}(x) - (x-x_0)P_{1,1}(x)}{x_0-x_1} = \frac{(-1-2)\cdot 3\cdot (-1-1)\cdot (-5)}{1-2}$ $= \frac{-3.3 - (-2).(-5)}{1-2} = \frac{9-10}{(-1)} = \frac{19}{19}$ $P_{112} = \frac{(x-x_2)P_{11}(x) - (x-x_1)P_{12}(x)}{x_1 - x_2} = \frac{(-1-1-4)(-5) - (-1-2)\cdot 4}{2 - (-4)}$ $= \frac{3 \cdot 1 - 51 - 1 - 3) \cdot 4}{6} = \frac{-15 + 12}{6} = -\frac{1}{2}$ $P_{0,2} = \frac{(x-x_2)P_{0,1}(x)-(x-v_2)P_{1,2}(x)}{(x-v_2)P_{1,2}(x)} = \frac{[-1-1-4)!\cdot 19^{-1-4-1}\cdot 1-\frac{1}{2}}{1-[-4]}$ $=\frac{3.15-1}{5}=\frac{56}{5}=11,2$