Numerik Sere 10  $A \begin{pmatrix} c_1 \\ c_2 \end{pmatrix} = \begin{pmatrix} z_1 \\ z_2 \end{pmatrix}$ Aufgale 1 0 x 1 0 1 2 3 A = (2(h.+h.) h.) = (4 1)
h. 2.(h.+h.) / 1 4) Yi 2 1 2 2 hi 1 1 1 1 ci 0 c1 c2 0  $\begin{vmatrix}
 3 \cdot y_2 - y_0 & 3 \cdot y_1 - y_0 \\
 h_1 & h_2 & h_3
 \end{vmatrix}
 = 
 \begin{vmatrix}
 3 \cdot y_2 - y_1 & 3 \cdot y_2 - y_1 \\
 h_2 & h_3
 \end{vmatrix}
 = 
 \begin{vmatrix}
 3 \cdot y_2 - y_1 & 3 \cdot y_2 - y_1 \\
 h_4 & h_4
 \end{vmatrix}
 = 
 \begin{vmatrix}
 3 \cdot y_2 - y_1 & 3 \cdot y_2 - y_1 \\
 h_4 & h_4
 \end{vmatrix}
 = 
 \begin{vmatrix}
 3 \cdot y_2 - y_1 & 3 \cdot y_2 - y_1 \\
 h_4 & h_4
 \end{vmatrix}
 = 
 \begin{vmatrix}
 3 \cdot y_2 - y_1 & 3 \cdot y_2 - y_1 \\
 h_4 & h_4
 \end{vmatrix}
 = 
 \begin{vmatrix}
 3 \cdot y_2 - y_1 & 3 \cdot y_2 - y_1 \\
 h_4 & h_4
 \end{vmatrix}
 = 
 \begin{vmatrix}
 3 \cdot y_2 - y_1 & 3 \cdot y_2 - y_1 \\
 h_4 & h_4
 \end{vmatrix}
 = 
 \begin{vmatrix}
 4 \cdot y_1 & y_2 - y_1 & 3 \cdot y_2 - y_1 \\
 h_4 & h_4
 \end{vmatrix}
 = 
 \begin{vmatrix}
 4 \cdot y_1 & y_1 & y_2 - y_1 & 3 \cdot y_2 - y_1 \\
 h_4 & h_4
 \end{vmatrix}
 = 
 \begin{vmatrix}
 4 \cdot y_1 & y_1 & y_2 - y_1 & 3 \cdot y_2 - y_1 \\
 h_4 & h_4
 \end{vmatrix}
 = 
 \begin{vmatrix}
 4 \cdot y_1 & y_1 & y_2 - y_1 & y_2 - y_1 \\
 h_4 & h_4
 \end{vmatrix}
 = 
 \begin{vmatrix}
 4 \cdot y_1 & y_1 & y_2 - y_1 & y_2 - y_1 \\
 h_4 & h_4
 \end{vmatrix}
 = 
 \begin{vmatrix}
 4 \cdot y_1 & y_1 & y_2 - y_1 & y_2 - y_1 \\
 h_4 & h_4
 \end{vmatrix}
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 \begin{vmatrix}
 4 \cdot y_1 & y_1 & y_2 - y_1 & y_2 - y_1 \\
 h_4 & h_4
 \end{vmatrix}
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 4 \cdot y_1 & y_1 & y_2 - y_1 & y_2 - y_1 \\
 h_4 & h_4
 \end{vmatrix}
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 4 \cdot y_1 & y_1 & y_2 - y_1 & y_2 - y_1 \\
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 \end{vmatrix}
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 \begin{vmatrix}
 4 \cdot y_1 & y_1 & y_2 - y_1 & y_2 - y_1 \\
 h_4 & h_4
 \end{vmatrix}
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 4 \cdot y_1 & y_1 & y_2 - y_1 & y_2 - y_1 \\
 h_4 & h_4
 \end{vmatrix}
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 4 \cdot y_1 & y_1 & y_2 - y_1 & y_2 - y_1 \\
 h_4 & h_4
 \end{vmatrix}
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 \begin{vmatrix}
 4 \cdot y_1 & y_1 & y_2 - y_1 & y_2 - y_1 \\
 h_4 & h_4
 \end{vmatrix}
 = 
 \begin{vmatrix}
 4 \cdot y_1 & y_1 & y_2 - y_1 & y_2 - y_1 & y_2 - y_1 \\
 h_4 & h_4
 \end{vmatrix}
 = 
 \begin{vmatrix}
 4 \cdot y_1 & y_1 & y_2$ 01: 2 1 2  $= > \begin{pmatrix} 4 & 1 \\ 1 & 4 \end{pmatrix} \cdot \begin{pmatrix} c_1 \\ c_2 \end{pmatrix} = \begin{pmatrix} 6 \\ -3 \end{pmatrix}$ 3 6 bereding b; = y: 1 - y: h: (c: + 2c:) 62 = 6 - 4ca -> Cz = 6 - 4 (-3 - 4ca)  $= 6 + 12 + 10 c_2$   $c_2 - 16c_2 = 18$   $-15c_2 = 18$   $c_2 = -\frac{6}{5}$ 6, = 2-1 - (- +2.3) = 1-1= = 5 b2 = 2-2 - 1 (0 -2 5) = -4 C1 = -3 + 4 · = = 5 (5) polyron: 5:(x= a.+ 4:(x-x:)+c:(x-x:)2+d:(x-x) (4) di= 1 (ci+1-ci)  $S_{o}(x) = 2 + \frac{8}{5}(x-0) + \frac{3}{5}(x-0)^{3}$ d. = 1 (-9 -0) = 3 = 3 5,(x)=1+=(x-1)+=(x-1)+(x-1)3 01 = 3 (-9 - 5) = 1  $s_2(x) = 2 - \frac{4}{5}(x-2) - \frac{6}{5}(x-2)^2 + \frac{2}{5}(x-2)^3$  $d_2 = \frac{1}{3}(0 - \frac{6}{3}) = \frac{2}{3}$ Bry. p. (1) = 2 - 8 + = = 1 1