

①  $f(x) = \frac{1}{1+x^2}$ ,  $x \in [-1, 1]$ , Hermite interp.

$$\begin{array}{l|l} x_1 = -1, & x_2 = 0, & x_3 = 1 \\ m_1 = 2, & m_2 = 1, & m_3 = 2 \end{array} \quad \left| \quad H(x) = ?\right.$$

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②  $f(x) = (x-1)^2(x+2)$ ,  $x_1 = -2$ ,  $x_2 = 1$ , Herm.

a)  $m_1 = 1$ ,  $m_2 = 2$ :  $H(x) = ?$  | az egyik

b)  $m_1 = 2$ ,  $m_2 = 1$ :  $H(x) = ?$  | könnyű!

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③  $x^2 - 1/2 = 0$ ,  $x_1 = 0$ ,  $x_2 = 1/2$ ,  $x_3 = 1$ .

Inverz interpolációval  $x_4 = ?$  (Lagr.  $\in \mathbb{P}_2$ )