6.4. D(x) = x4+2x3+x+2  $\max_{i=1} |a_i| = 2$  $|a_{i}| = 2$   $|a_{i}| = 2$  $V = \frac{1}{1 + \frac{2}{5}} = \frac{1}{2}$  $R = 1 + \frac{z}{1} = 3$ xie (213)  $6.5, \times \in \left(\frac{15}{38}, 24\right)$ x; eM =)×1' € [1,2,-..23] a: 1 - 9 - 23 - 15 P(1) = 0 a: 1 - 8 - 15 OE 1 - 9752p(x) = (x - 1) Q(x) $Q(x) = x^{7} - 8 \times + 15$ 

$$P(x) = (x-1) Q(x)$$

$$Q(x) = x^{2} - 8x + 15$$

$$Q(x) = Q(x) = 0$$

$$Q(x) = (x-3)(x-5)$$

$$A = \begin{bmatrix} -1 & 0 \\ 1 & 2 \end{bmatrix}$$

$$(|A||_{1} = mid_{1} - ||+(1), |0|+|2|)$$

$$||A||_{\infty} = \max \{1, 3\} = 3$$

$$||A||_{\varphi} = |(1)^{2} + 0^{2} + 1^{2} + 2^{2}$$

$$||A||_{\varphi} = |(6)^{2} + 1^{2} + 2^{2}$$

$$\|A\|_{2} = 7$$

$$A^{T}A = \begin{bmatrix} -1 & 1 \\ 0 & 2 \end{bmatrix} \begin{bmatrix} -1 & 0 \\ 1 & 2 \end{bmatrix}$$

$$\begin{bmatrix}
2 - a & 2 & 7 \\
2 - a & 2 & 7
\end{bmatrix} = (2 - a)(4 - a) - 4$$

$$= a^{2} - 6a + 4$$

$$a^{2} - 6a + 4 = 0$$

$$a_{1/2} = 6 + (-6)^{2} - 4 \cdot 1 \cdot 4$$

$$= 3 + (5)$$

$$\begin{vmatrix}
4 & 2 & 7 \\
1/2 & 2 & 7
\end{vmatrix}$$

$$= 3 + (5)$$

$$\begin{vmatrix}
6 & 6 & 7 \\
1/2 & 2
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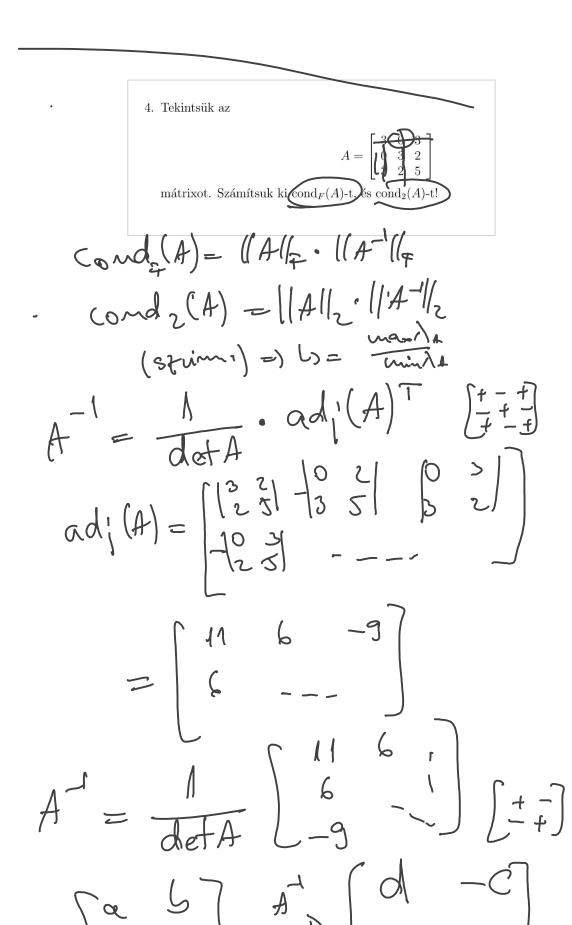
$$= \frac{2 \cdot ||A||}{|A|}$$

$$= \frac{1}{2} \cdot \left[\frac{2}{2} - \frac{1}{4}\right]$$

$$= \frac{1}{2} \cdot \left[\frac{2}{2} - \frac{1}{4}\right]$$

$$= \frac{1}{2} \cdot \left[\frac{1}{2}\right] \cdot \left[\frac{1}{2}\right] \cdot \left[\frac{1}{2}\right]$$

$$= \frac{1}{2} \cdot \left[\frac{1}{2}\right] \cdot \left[\frac{1}{2$$



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