Homework 7

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Problem 1.

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Problem 2.

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Problem 4.

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Problem 5.

Let

$$\det (\mathbf{A} - x \mathbf{I}_n) = x^n + \sum_{0 \le k < n} a_k x^k$$

decribe how to obtain using Lapace expansions an $n \times n$ matrix **A** satisfying the contraint above such that **A** is not a diagonal matrix and **A** has at most 2n-1 non zero entries.