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Paper 1
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J. De Fontaine

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$$a = \begin{array}{ccccccccc} 2 & 2 & 0 & 1 & 1 & 0 & 1 & 1 & 0 \\ 3 & 1 & 1 & 3 & 0 & 1 & 1 & 1 & 1 \\ 1 & 1 & 3 & 0 & 1 & 1 & 1 & 1 & 1 \end{array}$$

$$a^5 = \begin{array}{ccccccccc} 2 & 0 & 1 & 1 & 2 & 1 & 1 & 0 & 1 \\ 3 & 1 & 1 & 0 & 0 & 1 & 1 & 3 & 1 \\ 1 & 1 & 5 & 4 & 4 & 4 & 5 & 4 & 4 \end{array}$$
 problem 2

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$$\begin{array}{l} a_1 x + b_1 y + c_1 z = 1 \\ a_2 x + b_2 y + c_2 z = 2 \end{array}$$

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$$\begin{array}{cccc} a & b & c & d \\ a & b & c & d \end{array}$$
 we first write it as
$$\begin{array}{cccc} a & b & c & d \\ a & b & c & d \end{array}$$

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web so there are two quantities which can be found in a matrix minors and cofactors minors exist for each element of the matrix and are defined as the determinant of the matrix you get when you ignore the row and column of the element in question for example if my matrix is as follows
$$\begin{array}{ccccccccc} 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9 \end{array}$$

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