$$\begin{vmatrix} a_{1} + x & a_{1} & ... & a_{n} \\ a_{1} & a_{2} + x & ... & a_{n} \\ \vdots & \vdots & \ddots & \vdots \\ a_{n} & a_{2} + x & ... & a_{n} + x \end{vmatrix} = \begin{vmatrix} x & 0 & ... & -x \\ 0 & x & ... & -x \\ \vdots & \vdots & \ddots & \vdots \\ a_{n} & a_{2} & ... & a_{n} + x \end{vmatrix} = \begin{vmatrix} x & 0 & ... & -x \\ 0 & x & ... & -x \\ \vdots & \vdots & \ddots & \vdots \\ a_{n} & a_{n} & ... & a_{n} + x \end{vmatrix} = \begin{vmatrix} x & 0 & ... & -x \\ 0 & x & ... & -x \\ \vdots & \vdots & \ddots & \vdots \\ a_{n} & a_{n} & ... & a_{n} + x \end{vmatrix} = \begin{vmatrix} x & 0 & ... & -x \\ 0 & x & ... & -x \\ \vdots & \vdots & \ddots & \vdots \\ a_{n} & a_{n} & ... & a_{n} + x \end{vmatrix} = \begin{vmatrix} x & 0 & ... & -x \\ 0 & x & ... & -x \\ \vdots & \vdots & \ddots & \vdots \\ a_{n} & a_{n} & ... & a_{n} + x \end{vmatrix} = \begin{vmatrix} x & 0 & ... & -x \\ 0 & x & ... & -x \\ \vdots & \vdots & \ddots & \vdots \\ a_{n} & a_{n} & ... & a_{n} + x \end{vmatrix} = \begin{vmatrix} x & 0 & ... & -x \\ 0 & x & ... & -x \\ \vdots & \vdots & \ddots & \vdots \\ a_{n} & a_{n} & ... & a_{n} + x \end{vmatrix} = \begin{vmatrix} x & 0 & ... & -x \\ 0 & x & ... & -x \\ \vdots & \vdots & \ddots & \vdots \\ a_{n} & a_{n} & ... & a_{n} + x \end{vmatrix} = \begin{vmatrix} x & 0 & ... & -x \\ 0 & x & ... & -x \\ \vdots & \vdots & \ddots & \vdots \\ a_{n} & a_{n} & ... & a_{n} + x \end{vmatrix} = \begin{vmatrix} x & 0 & ... & -x \\ 0 & x & ... & -x \\ \vdots & \vdots & \ddots & \vdots \\ a_{n} & a_{n} & ... & a_{n} + x \end{vmatrix} = \begin{vmatrix} x & 0 & ... & -x \\ 0 & x & ... & -x \\ \vdots & \vdots & \ddots & \vdots \\ a_{n} & a_{n} & ... & a_{n} + x \end{vmatrix} = \begin{vmatrix} x & 0 & ... & -x \\ 0 & x & ... & -x \\ \vdots & \vdots & \ddots & \vdots \\ a_{n} & a_{n} & ... & -x \\ \vdots & \vdots & \ddots & \vdots \\ a_{n} & a_{n} & ... & -x \\ \vdots & \vdots & \ddots & \vdots \\ a_{n} & a_{n} & ... & -x \\ \vdots & \vdots & \ddots & \vdots \\ a_{n} & a_{n} & ... & -x \\ \vdots & \vdots & \ddots & \vdots \\ a_{n} & a_{n} & ... & -x \\ \vdots & \vdots & \ddots & \vdots \\ a_{n} & a_{n} & ... & -x \\ \vdots & \vdots & \ddots & \vdots \\ a_{n} & a_{n} & ... & -x \\ \vdots & \vdots & \ddots & \vdots \\ a_{n} & a_{n} & ... & -x \\ \vdots & \vdots & \ddots & \vdots \\ a_{n} & a_{n} & ... & -x \\ \vdots & \vdots & \ddots & \vdots \\ a_{n} & a_{n} & ... & -x \\ \vdots & \vdots & \ddots & \vdots \\ a_{n} & a_{n} & ... & -x \\ \vdots & \vdots & ... & ... \\ a_{n} & a_{n} & ... \\ a_{n} & a_{n} & ... \\ a_{n} & a_{n} & ... \\$$

#8

$$= (a+b) \cdot \Delta_{n-1} - ab \cdot \Delta_{n-2}$$

Характеристический миргочлен: 
$$x^n = (a+b) \cdot x^{n-1} - ab \cdot x^{n-2} | \cdot x^{2-n}$$

 $x^2 = (a+b) \cdot x - ab$ 

$$x^{2} - (a+b)x + ab = 0$$

$$(x-a)(x-b) = 0$$

$$\Delta_{n} = C_{1} \cdot a^{n} + C_{2} \cdot b^{n}$$

$$\int_{n=1}^{n} a+b = C_{1} \cdot a+c_{2} \cdot b$$

$$\int_{n=2}^{n} a+b = C_{1} \cdot a+c_{2} \cdot b$$

$$\int_{n=2}^{n} a+b + b^{2} = C_{1} \cdot a^{2} + c_{1} \cdot b^{2}$$

$$\int_{n=2}^{n} a+b + b^{2} = C_{1} \cdot a^{2} + c_{2} \cdot b^{2}$$

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