范德蒙法

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$$\begin{vmatrix} 1, & 1 & --- & 1 \\ \alpha_1, & \alpha_2 & --- & \alpha_n \\ \alpha_1^1, & \alpha_2^1 & --- & \alpha_n^1 \\ \vdots & \vdots & \vdots \\ \alpha_1^{n-1} & \alpha_2^{n-1} & --- & \alpha_n^{n-1} \end{vmatrix} = \underbrace{11}_{1 \le j < i \le n} \left(\alpha_i - \alpha_j \right).$$

推论。第八劲城上小线的小的第八八约之处从线的八八多。

$$(\alpha_{1}-\alpha_{1})(\alpha_{5}-\alpha_{1}).(\alpha_{n}-\alpha_{1})\times \begin{pmatrix} \alpha_{1} & \alpha_{2} & \alpha_{3} & - & - & \alpha_{n} \\ \alpha_{1} & \alpha_{2} & \alpha_{3} & - & - & \alpha_{n} \\ \alpha_{1} & \alpha_{3} & \alpha_{n} & \alpha_{n} \end{pmatrix} = \begin{pmatrix} \alpha_{1} & \alpha_{3} & \alpha_{2} & \alpha_{2} \\ \alpha_{1} & \alpha_{3} & \alpha_{n} & \alpha_{n} \end{pmatrix}$$

$$=$$
 $(\alpha_k - \alpha_i) \cdot \cdot \cdot (\alpha_n - \alpha_i) \times (\alpha_3 - \alpha_1) \cdot \cdot \cdot \cdot (\alpha_n - \alpha_2) \cdot \cdot \cdot \cdot$