

$$|a_{1}, a_{12}, a_{21}, a_{22}, a_{2n}| = |a_{1}|^{1/2} |a_{12}|^{1/2} ... |a_{1n}|^{1/2} |a_{2n}|^{1/2} ... |a_{2n}|^{1/2} |a_{2n$$

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(b) 
$$\begin{vmatrix} a_{11} & a_{12} & \cdots & a_{1n} \\ a_{d_{1}}^{\dagger} & a_{12} & \cdots & a_{d_{1n}} \\ a_{d_{1}}^{\dagger} & a_{12} & \cdots & a_{d_{1n}} \\ a_{d_{1}}^{\dagger} & a_{12} & \cdots & a_{d_{1n}}^{\dagger} & a_{d_{1n}}^{\dagger} & a_{d_{1n}}^{\dagger} & a_{d_{1n}}^{\dagger} \\ a_{d_{1n}}^{\dagger} & a_{12} & \cdots & a_{nn} \end{vmatrix} = \begin{vmatrix} a_{d_{1}} & a_{d_{12}} & a_{d_{1n}} \\ a_{d_{1}} & a_{d_{2}} & a_{d_{2}} \\ a_{d_{1n}}^{\dagger} & a_{12} & \cdots & a_{nn} \end{vmatrix} + \begin{vmatrix} a_{d_{1}} & \cdots & a_{d_{1n}} \\ a_{d_{1n}} & a_{d_{2n}} & \cdots & a_{nn} \\ a_{nn}^{\dagger} & a_{nn}^{\dagger} & a_{nn}^{\dagger} & a_{nn}^{\dagger} & a_{nn}^{\dagger} \\ a_{nn}^{\dagger} & a_{nn}^{\dagger} & a_{nn}^{\dagger} & a_{nn}^{\dagger} & a_{nn}^{\dagger} \\ a_{nn}^{\dagger} & a_{nn}^{\dagger} & a_{nn}^{\dagger} & a_{nn}^{\dagger} & a_{nn}^{\dagger} \\ a_{nn}^{\dagger} & a_{nn}^{\dagger} & a_{nn}^{\dagger} & a_{nn}^{\dagger} & a_{nn}^{\dagger} \\ a_{nn}^{\dagger} & a_{nn}^{\dagger} & a_{nn}^{\dagger} & a_{nn}^{\dagger} & a_{nn}^{\dagger} \\ a_{nn}^{\dagger} & a_{nn}^{\dagger} & a_{nn}^{\dagger} & a_{nn}^{\dagger} & a_{nn}^{\dagger} \\ a_{nn}^{\dagger} & a_{nn}^{\dagger} & a_{nn}^{\dagger} \\ a_{nn}^{\dagger} & a_{nn}^{\dagger} & a_{nn}^{\dagger} & a_{nn}^{\dagger} \\ a_{nn}^{\dagger} & a_{nn}^{\dagger} & a_{nn}^{\dagger} & a_{nn}^{\dagger} \\ a_{nn}^{\dagger} & a_{nn}^{\dagger} & a_{nn}^{\dagger} \\ a_{nn}^{\dagger} & a_{nn}^{\dagger} & a_{nn}^{\dagger} \\ a_{nn}^{\dagger} & a_{nn}^{\dagger} & a_{nn}^{\dagger} & a_{nn}^{\dagger} \\ a_{nn}^{\dagger} &$$

fin.

 $32 = \begin{bmatrix} a_1 & b_1 + C_1 & C_1 + a_4 \\ a_2 & b_2 + C_2 & C_2 + a_2 \\ a_3 & b_3 + C_3 & C_3 + a_3 \end{bmatrix} = \begin{bmatrix} b_1 & b_1 + C_1 & C_1 + a_4 \\ b_2 & b_2 + C_2 & C_2 + a_2 \\ b_3 & b_3 + C_3 & C_3 + a_3 \end{bmatrix}$ 

$$\{\lambda_{1}\}: \chi_{1}, \dots, \chi_{n} \neq 0$$
 $\uparrow_{n} D_{n} = \begin{cases} 1+\chi_{1} & 2 & 3 ---- & n \\ 2+\chi_{2} & 3 & \cdots & n \end{cases}$ 
 $\begin{cases} 1 & 2 & 3+\chi_{3}, \dots & n \\ 1 & 1 & 1 \\ 1 & 2 & 3 --- & n+\chi_{n} \end{cases}$ 

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\text{Dn=} \text{1 2a a^2} \\
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\text{1 2 a a^2} \\
\text{1 2 a a a^2} \ 5n=1 mg  $\frac{1}{5}$ n = 2 pg.  $\frac{1}{2}$ a  $\frac{3}{2}$ a = (n+1) a  $\frac{1}{n}$   $\frac{nH}{n}$   $\alpha$