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Memo No. _____

Date / /

$$A \xrightarrow{\substack{R_1 \leftrightarrow R_0 \\ R_r \leftrightarrow R_r}} A' = \begin{bmatrix} e_1 & e_r & 0 & 0 & 0 \\ d_1 & d_r & 0 & 0 & 0 \\ c_1 & c_r & 0 & 0 & 0 \\ b_1 & b_r & b_r b_r b_r b_r \\ a_1 & a_r & a_r a_r a_r a_r \end{bmatrix}, |A'| = (-1)^r |A| = |A|$$

$$R_1 = R_1 - \frac{e_r}{d_r} R_r \xrightarrow{R_r \leftrightarrow R_r - \frac{b_r}{a_r}} A'' = \begin{bmatrix} e'_1 & 0 & 0 & 0 & 0 \\ d_1 & d_r & 0 & 0 & 0 \\ c_1 & c_r & 0 & 0 & 0 \\ b_1 & b_r & b_r b_r b_r b_r \\ a_1 & a_r & a_r a_r a_r a_r \end{bmatrix}, |A''| = |A'| = |A| \quad (1)$$

نفسه A'' $|A''|$ $|A|$ $|A''| = |A|$

(1) $|A| = |A''| = 0$