

$$1.) A \left| \begin{array}{cccc} 9 & 0 & 0 & 3 \\ 6 & 3 & 6 & 6 \\ 0 & 6 & 6 & -8 \\ 0 & 9 & 3 & 0 \end{array} \right|$$

$$(-1)^{11} \left| \begin{array}{ccc|cc} 3 & 0 & 6 & 3 & 0 \\ 6 & 6 & -8 & 0 & 6 \\ 9 & 3 & 0 & 9 & 3 \end{array} \right| \begin{array}{l} 0 + 0 + 0 \\ 0 + (-72)0 \end{array} \left. \vphantom{\begin{array}{ccc|cc}} \right\} 72 \cdot 9 = 648$$

$$(-1)^{12} \left| \begin{array}{ccc|cc} 6 & 6 & 6 & 6 & 0 \\ 0 & 6 & -8 & 0 & 6 \\ 0 & 3 & 0 & 0 & 3 \end{array} \right| \begin{array}{l} 0 + 0 + 6 \\ 0 - 144 + 0 \end{array} \left. \vphantom{\begin{array}{ccc|cc}} \right\} 144 \cdot 6 = 0$$

$$(-1)^{13} \left| \begin{array}{ccc|cc} 6 & 3 & 6 & 6 & 3 \\ 0 & 0 & -8 & 0 & 0 \\ 0 & 9 & 6 & 0 & 9 \end{array} \right| \begin{array}{l} 0 + 0 + 6 \\ 0 + (-432) + 0 \end{array} \left. \vphantom{\begin{array}{ccc|cc}} \right\} 432 \cdot 6 = 0$$

$$(-1)^{14} \left| \begin{array}{ccc|cc} 6 & 3 & 6 & 6 & 3 \\ 6 & 6 & 6 & 0 & 0 \\ 0 & 9 & 3 & 0 & 9 \end{array} \right| \begin{array}{l} 0 + 0 + 0 \\ 0 + 324 + 0 \end{array} \left. \vphantom{\begin{array}{ccc|cc}} \right\} 324 \cdot 3 = 972$$

$$(648) + (0) + (0) + (972) = 1.620$$

$$A(-1)^{2+2} \begin{vmatrix} 9 & 0 & 3 \\ 6 & 6 & -8 \\ 0 & 3 & 0 \end{vmatrix} \begin{vmatrix} 9 & 0 \\ 0 & 6 \\ 0 & 3 \end{vmatrix} \begin{matrix} 0 \\ -216 \\ 0 \end{matrix} \rangle 216$$

$$A(-1)^{4+1} \begin{vmatrix} 0 & 0 & 3 \\ 3 & 0 & 0 \\ 0 & 6 & -8 \end{vmatrix} \begin{vmatrix} 0 & 0 \\ 3 & 0 \\ 0 & 6 \end{vmatrix} \begin{matrix} 0+0+54 \\ 0+0+0 \\ 0+0+0 \end{matrix} \rangle -54$$

$$A(-1)^{3+4} \begin{vmatrix} 9 & 0 & 6 \\ 6 & 3 & 0 \\ 0 & 9 & 3 \end{vmatrix} \begin{vmatrix} 9 & 0 \\ 6 & 3 \\ 0 & 9 \end{vmatrix} \begin{matrix} 81+0+0 \\ 0+45+0 \\ 0+0+0 \end{matrix} \rangle -81$$

-135

4.

$$\det B^{-1} = \frac{1}{3,1}$$

$$72,25 \cdot \frac{1}{3,1} = 23,3$$

$$8,3 \cdot 3 = 25,5 \quad \approx 48,8$$