(1)
$$\begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}$$
 $\rightarrow det I_4 = |-1| \cdot |-1| = 1$.

these are just numbers

c) |= det
$$AA^{-1}$$
 = det A , det A^{-1} \longrightarrow , det A det A^{-1} = |

Ly determinant

Property

 A det A^{-1} = $\frac{1}{det A}$

(3)
$$dct B = 1 \begin{vmatrix} 1 & 2 \\ 21 \end{vmatrix} - 0 + 1 \begin{vmatrix} 1 & 1 \\ 12 \end{vmatrix}$$

1' Your

expansion

= $1(1-4) + 1(2-1)$

= $1 \cdot (-3) + 1 \cdot 1$

= $-3 + 1 = -2$

Since
$$de+ B = -2$$

$$de+ B^5 = (-2)^5$$

$$= (-32)$$