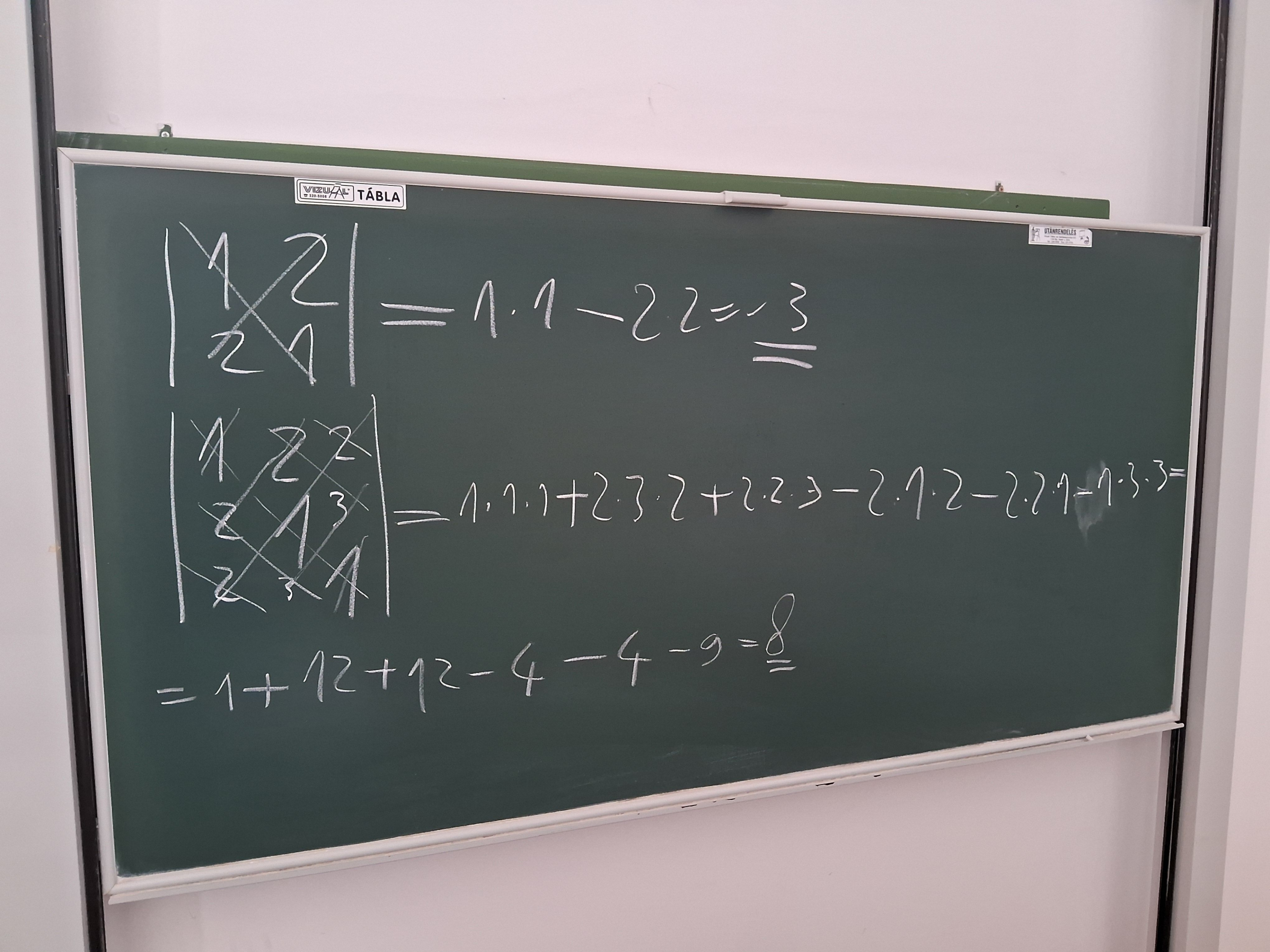
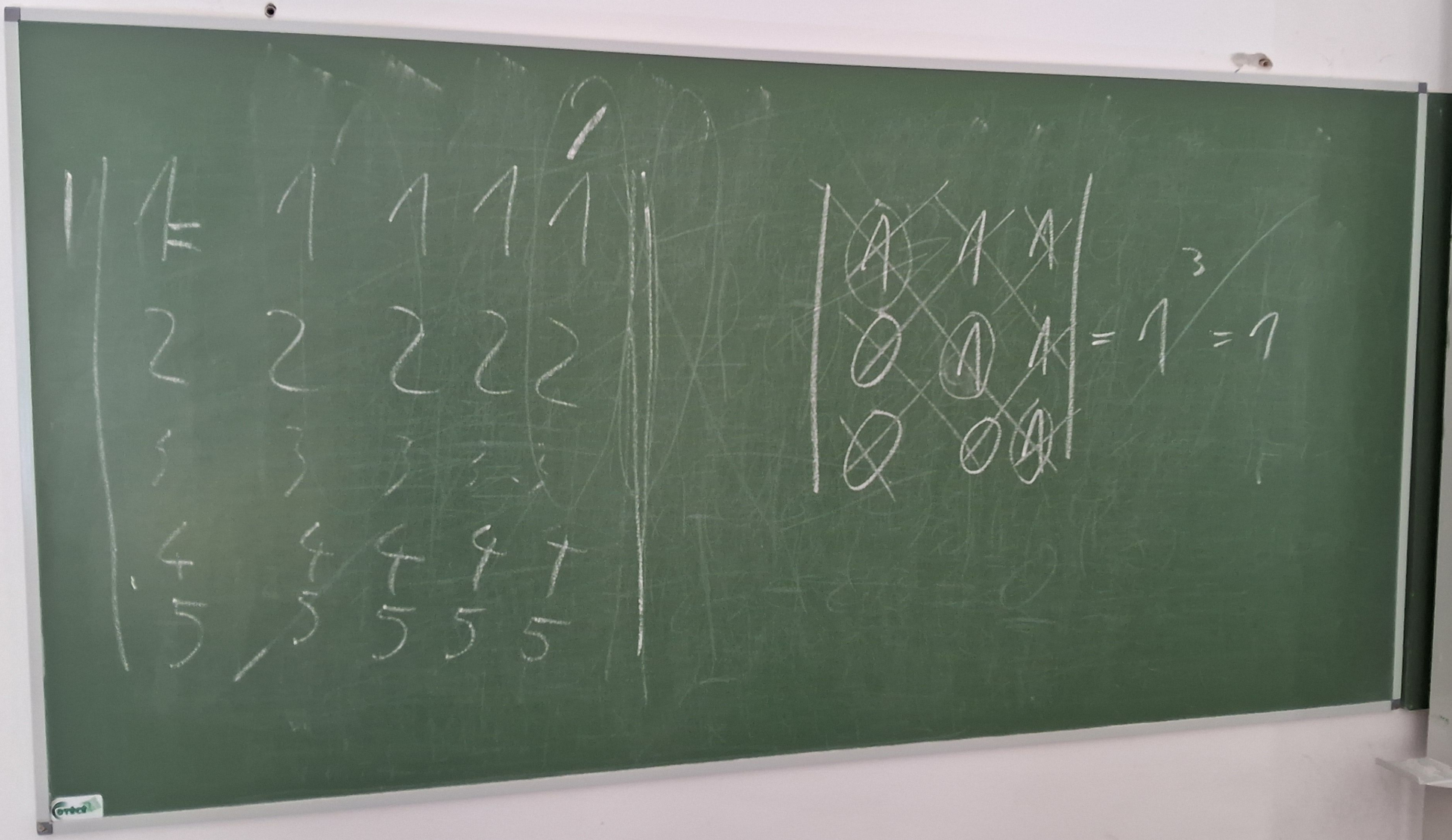
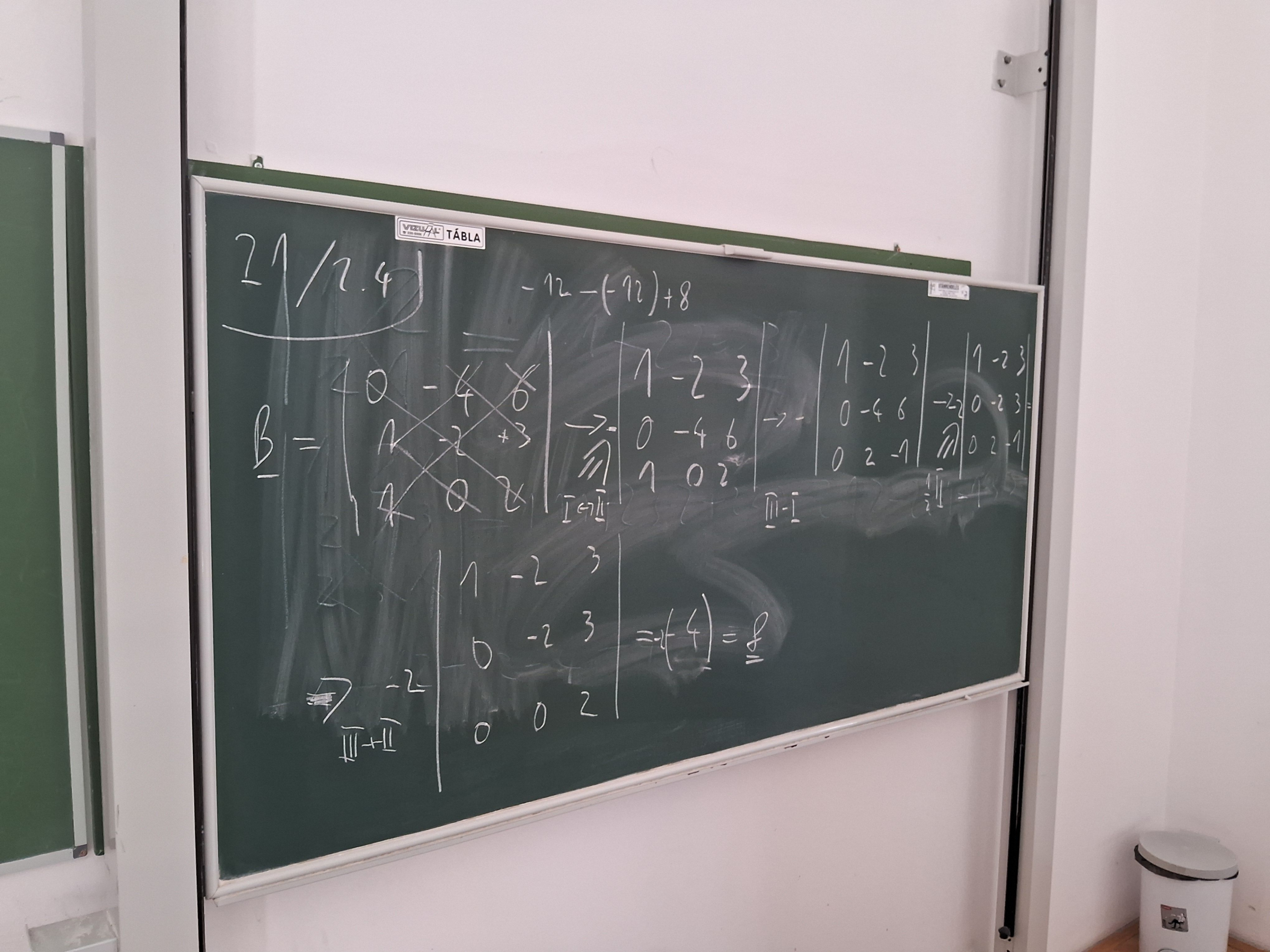
$$|A| = \begin{vmatrix} 1 & 1 & 1 & 1 \\ 0 & 1 & 0 & 0 \\ 2 & 2 & 2 & 2 \\ 3 & 3 & 3 & 3 \end{vmatrix} = - + \begin{vmatrix} 1 & 1 & 1 \\ 2 & 2 & 2 \\ 3 & 3 & 3 \end{vmatrix} = \begin{vmatrix} 2 & 2 \\ 3 & 3 \end{vmatrix} -$$

$$- \begin{vmatrix} 2 & 2 \\ 3 & 3 \end{vmatrix} + \begin{vmatrix} 2 & 2 \\ 3 & 3 \end{vmatrix} = 2 \cdot 3 - 2 \cdot 3 = \underline{0}$$


VIZUÁL TÁBLA
$\begin{vmatrix} 1 & 2 \\ 2 & 1 \end{vmatrix} = 1 \cdot 1 - 2 \cdot 2 = -3$
$\begin{vmatrix} 1 & 2 & 2 \\ 2 & 1 & 3 \\ 2 & 3 & 1 \end{vmatrix} = 1 \cdot 1 \cdot 1 + 2 \cdot 3 \cdot 2 + 2 \cdot 2 \cdot 3 - 2 \cdot 1 \cdot 2 - 2 \cdot 2 \cdot 1 - 1 \cdot 3 \cdot 3 =$
$= 1 + 12 + 12 - 4 - 4 - 9 = 8$


1 1 1 1 1 1
2 2 2 2 2
3 3 3 3
4 4 4 4 4
5 5 5 5 5
1 1 1
0 1 1
0 0 1
= 1 = 1


21/2.4)
$-12-(-12)+8$
$B = \begin{vmatrix} 1 & 0 & -4 & 6 \\ 1 & -2 & +3 & \\ 1 & 4 & 0 & 2 \end{vmatrix} \rightarrow \begin{vmatrix} 1 & -2 & 3 \\ 0 & -4 & 6 \\ 1 & 0 & 2 \end{vmatrix} \rightarrow \begin{vmatrix} 1 & -2 & 3 \\ 0 & -4 & 6 \\ 0 & 2 & -1 \end{vmatrix} \rightarrow \begin{vmatrix} 1 & -2 & 3 \\ 0 & -2 & 3 \\ 0 & 2 & -1 \end{vmatrix} =$
I ↔ II
III − I
-2
III + II
$\begin{vmatrix} 1 & -2 & 3 \\ 0 & -2 & 3 \\ 0 & 0 & 2 \end{vmatrix} = -4 = \underline{\underline{4}}$