Jema 5 Catalin Lapeanu

1) 8. Ron ri Harry dohere sa comunice folosind criptores lina peblocuri de a caractere. Stund ra cheia de criptore este matrices  $A = \begin{pmatrix} 15 & 13 \\ 23 & 2 \end{pmatrix} \in M_{2\times 2}(\mathcal{X}_{30})$ , ajutatel pe lon sa transmita lui Harry

HERMIONE Afabetul fobrit este 4-2\_?!.

$$\begin{pmatrix} 15 & 13 \\ 23 & 2 \end{pmatrix} \begin{pmatrix} H & R & i & N \\ E & M & O & E \end{pmatrix} =$$

$$= \begin{pmatrix} 15 & 13 \\ 23 & 2 \end{pmatrix} \begin{pmatrix} 7 & 17 & 8 & 13 \\ 4 & 12 & 14 & 4 \end{pmatrix} =$$

$$= \begin{pmatrix} 15.7 + 13.4 & 15.17 + 13.12 & 15-8 + 13.14 & 15-13+13.4 \\ 23.7 + 2.4 & 23.17 + 2.12 & 23.8 + 2.14 & 23.13 + 2.4 \end{pmatrix} =$$

$$= \begin{pmatrix} 105+52 & 255+156 & 120+182 & 135+52 \\ 161+8 & 391+24 & 184+28 & 299+8 \end{pmatrix}$$

## Scanned with CamScanner

HERMIONE ->RTV2 CCHH