Quelques questions

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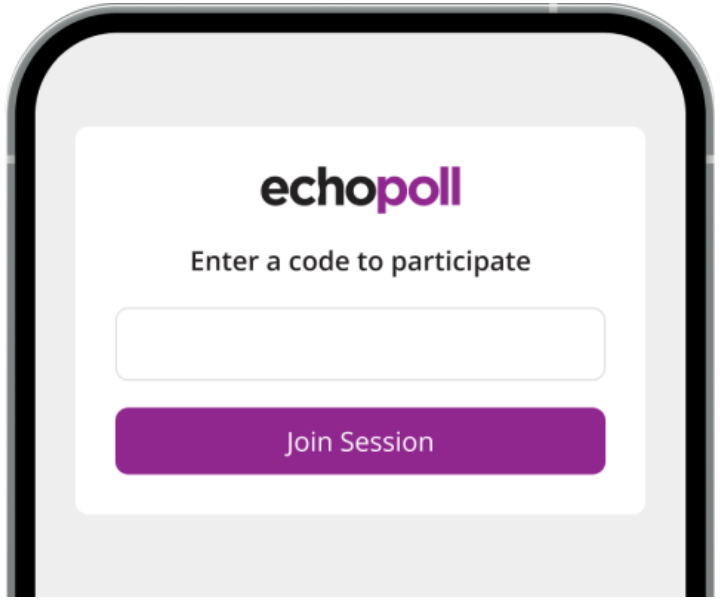

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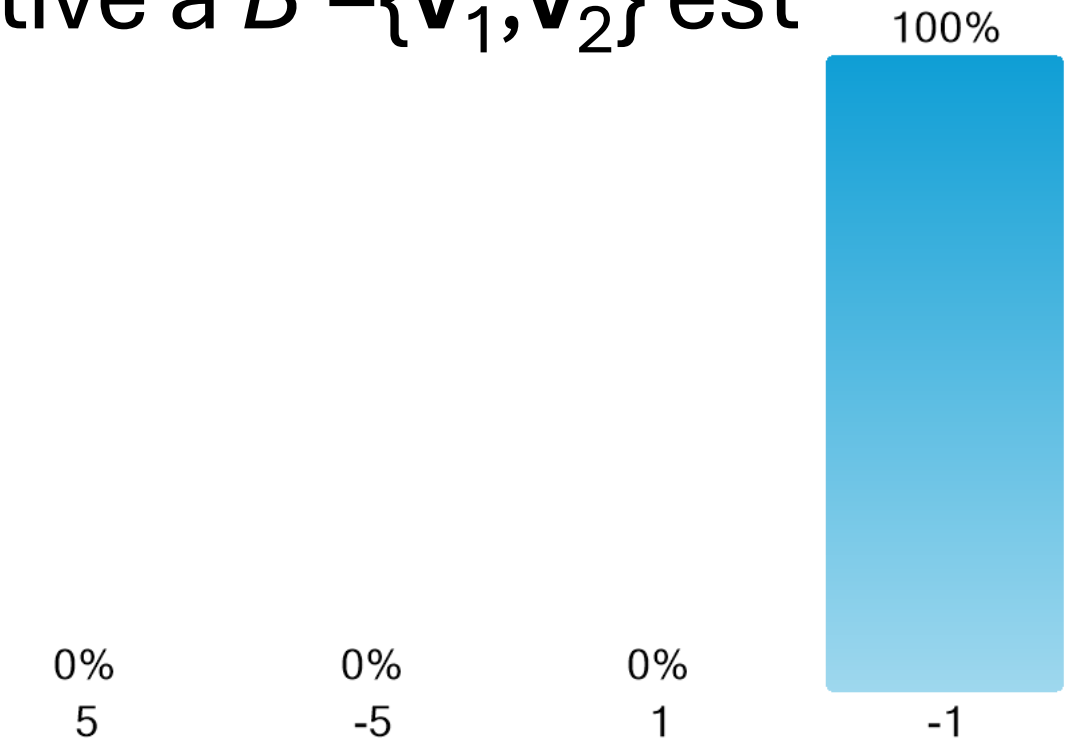
Pour les vecteurs

$$\boldsymbol{v}_1 = \begin{pmatrix} 1 \\ 1 \end{pmatrix}, \boldsymbol{v}_2 = \begin{pmatrix} 1 \\ -1 \end{pmatrix}, \boldsymbol{v} = \begin{pmatrix} 3 \\ 5 \end{pmatrix}$$

la 2ème coordonnée de **v** relative à $B = \{\mathbf{v}_1, \mathbf{v}_2\}$ est

a. 5
b. -5
c. 1
✓ d. -1

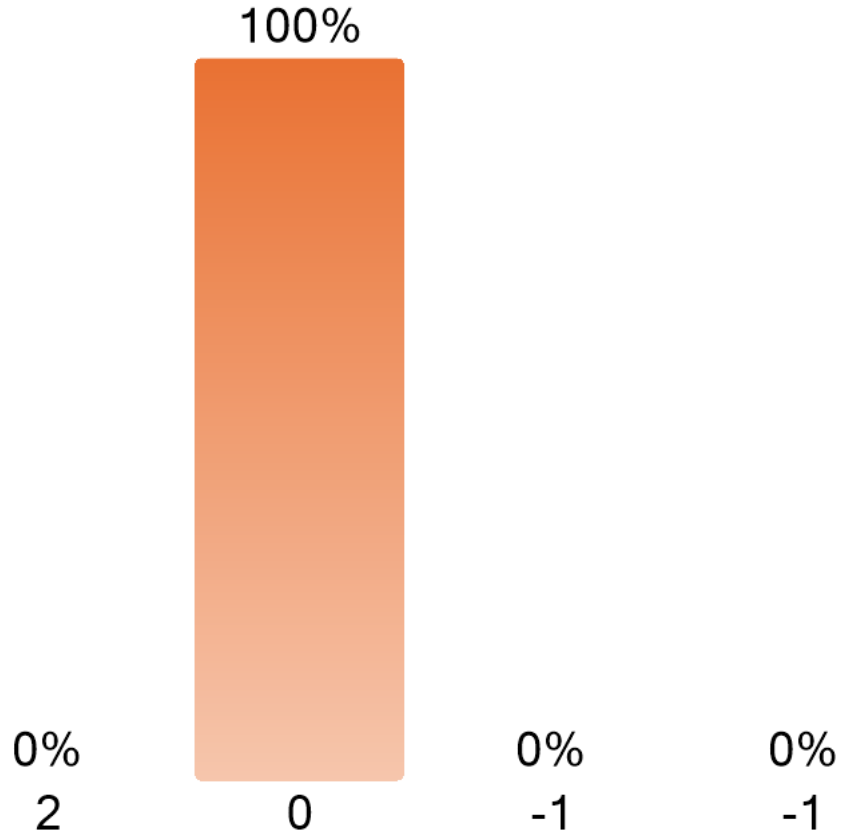


Soit T : $\mathbb{R}^2 \to \mathbb{R}^2$ l'application linéaire dont la matrice canonique est

$$[T] = \begin{pmatrix} 0 & 1 \\ 2 & 1 \end{pmatrix}$$

Si $A=[T]_{B \leftarrow B}$, alors $A_{1,2}$ est

a. 2
✓ b. 0
c. -1
d. 1



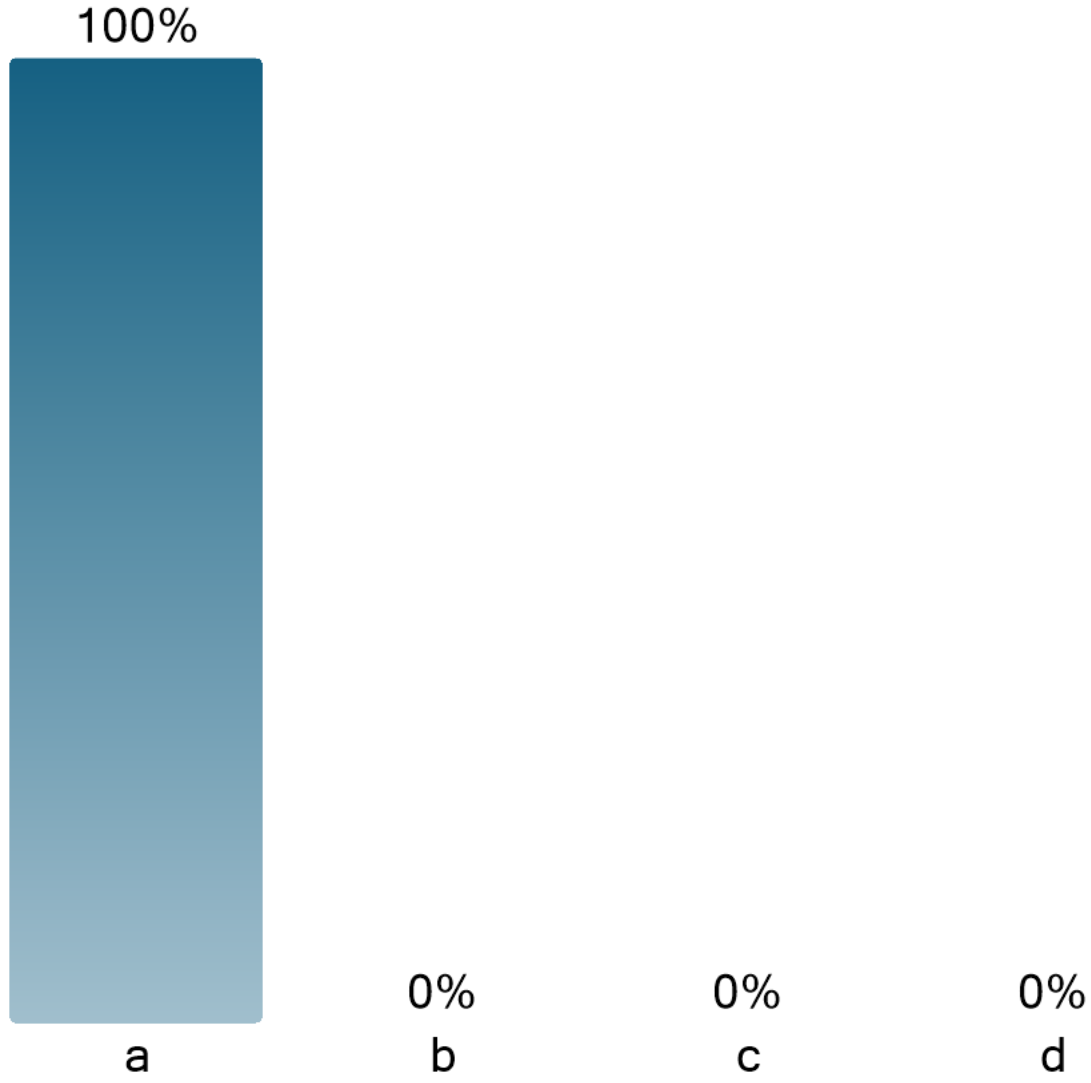
La dimension de $\mathbb{M}_{2x3}(\mathbb{R})$ vaut

✓ a. 6

b. 5

c. 2

d. 3



Une base de $\mathbb{M}_{2x3}(\mathbb{R})$ est par exemple:

$$\left\{\begin{pmatrix}1&0&0\\0&0&0\end{pmatrix},\begin{pmatrix}0&1&0\\0&0&0\end{pmatrix},\begin{pmatrix}0&0&1\\0&0&0\end{pmatrix},\right.$$
$$\left.\begin{pmatrix}0&0&0\\1&0&0\end{pmatrix},\begin{pmatrix}0&0&0\\0&1&0\end{pmatrix},\begin{pmatrix}0&0&0\\0&0&1\end{pmatrix}\right\}$$