C.
$$A = \begin{pmatrix} 1 & 1 \\ 1 & 1 \end{pmatrix} = A^{T}$$
 $A^{T} \cdot A = \begin{pmatrix} 2 & 2 \\ 2 & 2 \end{pmatrix} \Rightarrow \lambda_{1} = 4$

O Coberbenne berroph $A^{T} A : V_{1} = \begin{pmatrix} 1 & 1 \\ 1 & 1 \end{pmatrix}$
 $V_{2} = \begin{pmatrix} -1 & 1 \\ 1 & 1 \end{pmatrix}$
 $V_{3} = \begin{pmatrix} -1 & 1 \\ 1 & 1 \end{pmatrix}$
 $V_{4} = \begin{pmatrix} 1 & 1 \\ 1 & 1 \end{pmatrix}$
 $V_{5} = \begin{pmatrix} 1 & 1 \\ 1 & 1 \end{pmatrix}$
 $V_{7} = \begin{pmatrix} 1 & 1 \\ 1 & 1 \end{pmatrix}$
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