

6A. 2.

$$\vec{v}_1 = \begin{pmatrix} 1 \\ -1 \\ 1 \end{pmatrix} \quad \vec{v}_2 = \begin{pmatrix} 2 \\ -1 \\ -1 \end{pmatrix} \quad \vec{v}_3 = \begin{pmatrix} 0 \\ -1 \\ 3 \end{pmatrix} \quad \vec{v}_4 = \begin{pmatrix} 3 \\ -2 \\ 0 \end{pmatrix} \quad \vec{v}_5 = \begin{pmatrix} 1 \\ -2 \\ 3 \end{pmatrix}$$

$$\vec{v}_1 + \vec{v}_2 = \begin{pmatrix} 1 \\ -1 \\ 1 \end{pmatrix} + \begin{pmatrix} 2 \\ -1 \\ -1 \end{pmatrix} = \begin{pmatrix} 3 \\ -2 \\ 0 \end{pmatrix} = \vec{v}_4$$

∴ there cause a redundancy.

so they're ~~not~~ linearly dependent.

choose v_2, v_4, v_5 to form a three-tuples.

6Bb.

