

$$(2) \text{ a) } A = \langle \overrightarrow{V}_1 | \overrightarrow{V}_2 | \overrightarrow{V}_3 \rangle = \begin{bmatrix} 3 & 1 & 1 \\ 0 & -1 & 2 \\ 1 & 0 & 1 \\ 2 & 1 & 0 \end{bmatrix}$$

$$\text{totest } \{\overrightarrow{V}_1, \overrightarrow{V}_2, \overrightarrow{V}_3\} \text{ for linear independence:}$$

$$X_1 \overrightarrow{V}_1 + X_2 \overrightarrow{V}_2 + X_3 \overrightarrow{V}_3 = 0$$

$$(A_1 \overrightarrow{O}) = \begin{bmatrix} 3 & -1 & 2 & 0 \\ 1 & 0 & 1 & 0 \\ 2 & 1 & 0 & 1 \end{bmatrix}$$

$$\text{Total } A_1 \overrightarrow{V}_2 = 0$$

$$\text{Total } A_2 = 0$$

$$\text{Total } A_3 = 0$$

$$\text{Total } A_4 = 0$$

$$\text$$

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