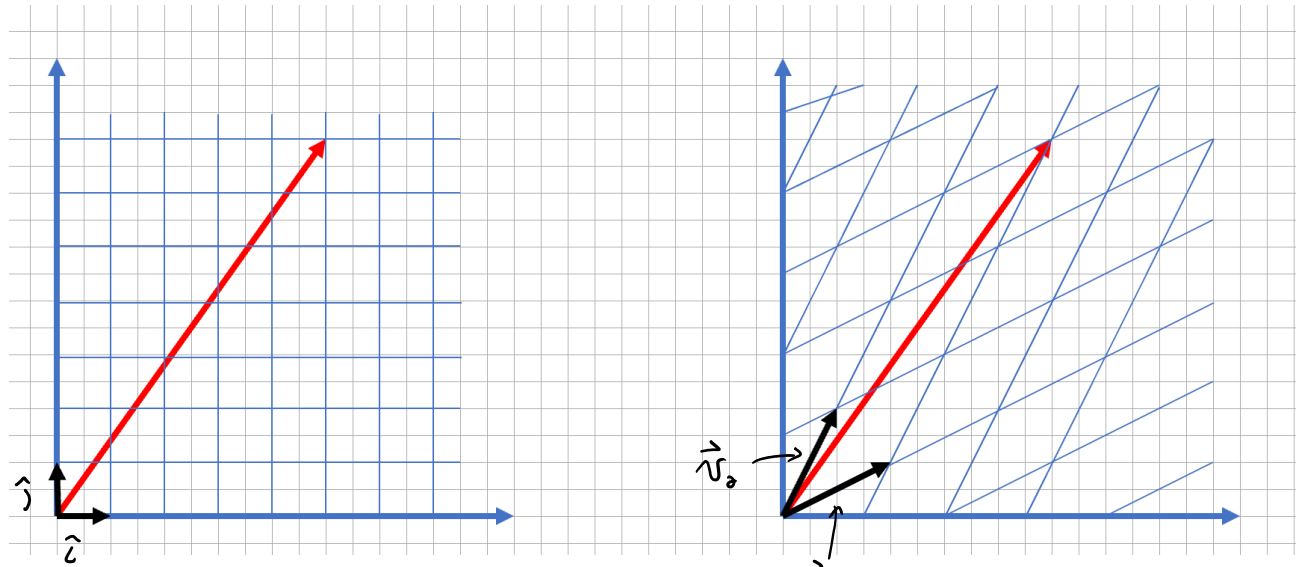


3.5 Basis

Wednesday, October 24, 2018 11:22 AM



$$\vec{u} = 5\hat{i} + 7\hat{j}$$

$$= \begin{bmatrix} 5 \\ 7 \end{bmatrix}$$

if nothing is specified, we are using the standard basis $\{\hat{i}, \hat{j}\}$

$$\vec{u} = 1\vec{v}_1 + 3\vec{v}_2$$

$$= \begin{bmatrix} 1 \\ 3 \end{bmatrix}_B$$

$$\text{basis } B = \{\vec{v}_1, \vec{v}_2\}$$