

## Additional Problems Assignment 17

1. Let  $\mathcal{B}$  be an ordered basis for  $W \leq \mathbb{R}^n$  and let  $\vec{x}, \vec{y} \in W$  show that:

$$[\vec{x} + \vec{y}]_{\mathcal{B}} = [\vec{x}]_{\mathcal{B}} + [\vec{y}]_{\mathcal{B}}$$