

$$\textcircled{i} \quad W = [a, b, c] \quad \text{where} \quad a \leq b \leq c$$

$$\text{let } u, v \in W$$

$$u = [a, b, c] \quad ; \quad v = [d, e, f]$$

$$\textcircled{i)} \quad u+v = [a+d, b+e, c+f]$$

$$a+d \leq b+e \leq c+f$$

$$\Rightarrow u+v \in W$$

$$\textcircled{ii)} \quad Ku = [Ka, Kb, Kc]$$

$$\text{but if } K < 0 \quad ; \quad Ka \geq Kb \geq Kc$$

$$\text{hence } Ku \notin W$$

$$\text{Thus } [a, b, c] \quad \text{where } a \leq b \leq c$$

does not represent a Subspace