Then 
$$x = \lambda_1 V_1 + U$$
 and  $y = \lambda_2 V_1 + U$ , for some  $\lambda_1, \lambda_2 \in \mathbb{F}$ .

Thus  $\Pi_1(x+y) \leq \Pi_1(\lambda_1 V_1 + U) + \lambda_2 V_1 + U$ 

$$= \Pi_1((\lambda_1 + \lambda_2) V_1 + U)$$

$$= \lambda_1 + \lambda_2$$

$$= \Pi_1(x) + \Pi_1(y)$$

$$\Rightarrow \text{ satisfy addivity} \cdot \sqrt{\Pi_1(\lambda_1 X_1)} = \Pi_1(\lambda_1 X_1 + U)$$

$$= \lambda_1 + \lambda_2$$

$$= \Pi_1(\lambda_1 X_1 + U)$$

$$= \lambda_1 + \lambda_2 + \lambda_3 + \lambda_4 + \lambda_4 + \lambda_4 + \lambda_4 + \lambda_4 + \lambda_5 +$$

(by definition)