independent set with size greater than that of β. So we can conclude that $\dim(W_1 \cap W_2) = \dim(W_1)$. For the converse, if we have $W_1 \subset W_2$, then we have $W_1 \cap W_2 = W_1$ and hence they have the same dimension.

23. Let α and β be the basis of W_1 and W_2. By the definition we have both α and β are bases with finite size.

   (a) The condition is that $v \in W_1$. If $v \notin W_1 = \text{span}(\alpha)$, thus $\alpha \cup \{v\}$ would be a independent set with size greater than that α. By Replacement Theorem we have $\dim(W_1) < \dim(W_2)$. For the converse, if $v \in W_1 = \text{span}(\{v_1, v_2, \ldots, v_k\})$, we actually have $W_2 = \text{span}(\{v_1, v_2, \ldots, v_k, v\}) = \text{span}(\{v_1, v_2, \ldots, v_k\}) = W_1$ and hence they have the same dimension.

   (b) Since we have $W_1 \subset W_2$, we have in general we have $\dim(W_1) < \dim(W_2)$.

24. By exercise 1.5.18 we have $\beta = \{f^{(i)}\}_{i=0,1,\ldots,n}$ is independent since they all have different degree. And since $\dim(\mathbf{P}_n(\mathbf{R})) = n+1$ we can conclude that β is a basis and hence it generate the space $\mathbf{P}_n(\mathbf{R})$.

25. It would be $m + n$ since $(\alpha, 0) \cup (0, \beta)$ would be a basis of Z if α and β are the basis of V and W respectly, where $(\alpha, 0) = \{(u, 0) \in Z : u \in V\}$ and $(0, \beta) = \{(0, u) \in Z : u \in W\}$.

26. It would be n since $\{x - a, x^2 - a^2, \ldots, x^n - a^n\}$ is a basis.

27. The dimension of $W_1 \cap \mathbf{P}_n(\mathbf{F})$ and $W_2 \cap \mathbf{P}_n(\mathbf{F})$ are $\lfloor \frac{n+1}{2} \rfloor$ and $\lceil \frac{n+1}{2} \rceil$ respectly since $\{x^i\}$ with $0 \le i \le n$ is an odd number and $\{x^j\}$ with $0 \le j \le n$ is a even number are bases of the two spaces respectly.

28. If α is the basis of V over $\mathbb{R}$, then we have $\alpha \cup i\alpha$ is the basis of V over $\mathbb{R}$, where $i\alpha = \{iv \in V : v \in \alpha\}$.

29. (a) Using the notation of the Hint, if we assume

$$\sum_{i=1}^{k} a_i u_i + \sum_{i=1}^{m} b_i v_i + \sum_{i=1}^{n} c_i w_i = 0$$

, then we have

$$v = \sum_{i=1}^{m} b_i v_i = -\sum_{i=1}^{k} a_i u_i - \sum_{i=1}^{n} c_i w_i$$

is contained in both W_1 and W_2 and hence in $W_1 \cap W_2$. But if $v \ne 0$ and can be express as $u = \sum_{i=1}^{k} a'_i u_i$, then we have $\sum_{i=1}^{m} b_i v_i - \sum_{i=1}^{k} a'_i u_i = 0$. This is contradictory to that $\{u_1, \ldots, v_1, \ldots\}$ is a basis of W_1. Hence we have

$$v = \sum_{i=1}^{m} b_i v_i = -\sum_{i=1}^{k} a_i u_i - \sum_{i=1}^{n} c_i w_i = 0$$

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Lawrence E. Spence

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