1. Consider the following list of length 2 in **C**.

$$(1 - i, 1 + i)$$

This list is...

- (A) linearly dependent when C is regarded as a vector space both over C and over R.
- (B) linearly dependent when C is regarded as a vector space over C, but linearly independent when C is a regarded as a vector space over R.
- (C) linearly independent when C is regarded as a vector space over C, but linearly dependent when C is a vector space over R.
- (D) linearly independent when C is regarded as a vector space both over C and over R.

Suppose u, v, w is a basis of V. Then

u + v, v + w, w

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is also a basis of V.

Suppose p_1, \ldots, p_m is a list of polynomials in $\mathcal{P}(\mathbf{F})$ no two of which have the same degree. Then the list is linearly independent.

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There exists a basis of $\mathcal{P}_3(\mathbf{F})$ consisting of polynomials none of which have degree 2.

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If v_1, v_2, v_3 is a basis of V and U is a subspace of V such that $v_1 \in U$ but $v_2, v_3 \notin U$, then v_1 is a basis of U.

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