

CC 14 2ND INTERNAL

ANSWER ALL THE QUESTIONS

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1. The vectors $\alpha_1 = (1,1,1), \alpha_2 = (1,1,-1), \alpha_3 = (1,-1,-1)$ form a basis of $V_3(C)$. If $\{f_1, f_2, f_3\}$ is the dual basis and $\alpha = (0,1,0)$ then the value of $f_1(\alpha)$ is

- a) 0 b) 1 c) -1 d) $\frac{1}{2}$

- a
 b
 c
 d

2. The dimension of the dual space V^* of a 5 dimensional vector space V over a field F is

- a) 5 b) 3 c) 1 d) none of these

- a
 b
 c
 d

3. If W_1 and W_2 be two subspaces of a finite dimensional vector space V over a field F then $(W_1 + W_2)^o =$

- a) $W_1^o + W_2^o$ b) $W_1^o \cap W_2^o$

- a



b

4. If W is a 3 dimensional subspace of a 5 dimensional vector space V over a field F then the dimension of W° is

a) 3 b) 2 c) 5 d) 3

 a b c d

5. Let ϕ be a linear functional on R^2 defined by $\phi(x, y) = 3x - 2y$. For the linear mapping $T: R^3 \rightarrow R^2$ defined by $T(x, y, z) = (x + y, y + z)$

$[T^*(\phi)](x, y, z)$ is

a) $x + y - 2z$

b) $-x + 5y + 3z$

c) $3x + y - 2z$

d) none of these

 a b c d

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