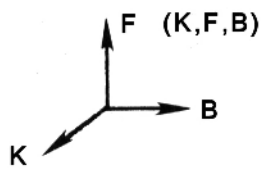
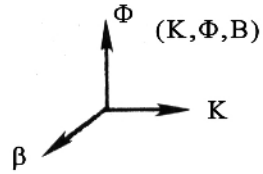


### Statics - Quiz 3

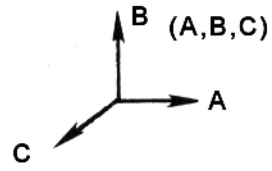
1. Are these systems right handed ? (The axes are orthogonal.)



Yes  No



Yes  No



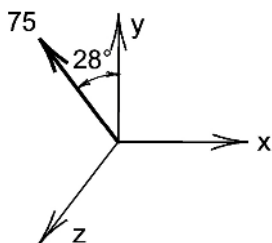
Yes  No

2. Draw (sketch and label) the vector  $\bar{A} = 3 \bar{i} + 4 \bar{j} - 6 \bar{k}$

3. Determine the magnitude of the vector  $\bar{B} = 3 \bar{i} - 4 \bar{j} + 12 \bar{k}$

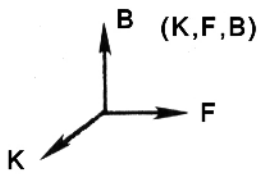
4. Write an expression for a unit vector parallel to the vector  $\bar{C} = 3 \bar{i} - 8 \bar{j} - 2 \bar{k}$

5. The vector in the figure is in the **y-z** plane. Write an expression for the vector as the product of its magnitude and a unit vector.

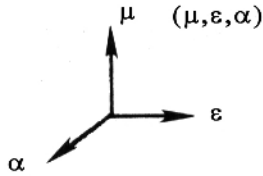


### Statics - Quiz 3

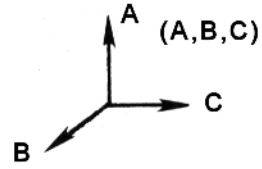
1. Are these systems right handed ? (The axes are orthogonal.)



Yes  No



Yes  No



Yes  No

2. Draw (sketch and label) the vector  $\bar{A} = 7 \bar{i} - 4 \bar{j} + 3 \bar{k}$

3. Determine the magnitude of the vector  $\bar{B} = 12 \bar{i} - 4 \bar{j} - 3 \bar{k}$

4. Write an expression for a unit vector parallel to the vector  $\bar{C} = 5 \bar{i} + 5 \bar{j} + 3 \bar{k}$

5. The vector in the figure is in the **y-z** plane. Write an expression for the vector as the product of its magnitude and a unit vector.

