

# Sample Questions with Answers

## Mathematics - Statistics

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Mathematics

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### Question 1:

If  $a$  and  $b$  are two non-zero and non-collinear vectors, then  $a + b$  and  $a - b$  are.

- A) Linearly dependent vectors
- B) Linearly dependent and independent vectors
- C) Linearly independent vectors
- D) All of the above

#### [ANSWER] Answer & Explanation:

Option C is the right answer.

### Question 2:

The system of vectors  $i, j, k$  is?

- A) Orthogonal
- B) Collinear
- C) Coplanar
- D) All of the above

#### [ANSWER] Answer & Explanation:

Option A is the right answer.

### Question 3:

What should be added in vector to get its resultant a unit vector  $i$ .

- A)  $-2i - 4j + 2k$
- B)  $2i + 4j + 2k$
- C)  $-2i + 4j + 2k$
- D) All of the above

#### [ANSWER] Answer & Explanation:

Option A is the right answer.

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