

# Sample Questions with Answers

## Mathematics

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Mathematics

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### Question 1:

The sum of two forces is 18 N and resultant whose direction is at right angles to the smaller force is 12N. The magnitude of the two forces are.

- A) 13, 5
- B) 14, 4
- C) 12, 6
- D) 11, 7

#### [ANSWER] Answer & Explanation:

Option A is the right answer.

### Question 2:

The vectors  $a$ ,  $b$  and  $a + b$  are

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

#### [ANSWER] Answer & Explanation:

Option C is the right answer.

### Question 3:

If O is origin and C is the mid point of A(2, -1) and B(-4,3) Then value of OC is.

- A)  $i + j$
- B)  $-i + j$
- C)  $i - j$
- D)  $-i - j$

#### [ANSWER] Answer & Explanation:

Option B is the right answer.

### Question 4:

The point having position vectors  $2i + 3j + 4k$ ,  $3i + 4j + 2k$ ,  $4i + 2j + 3k$  are the vertices of.

- A) Right angled triangle
- B) Equilateral triangle
- C) Isosceles triangle
- D) Collinear

#### [ANSWER] Answer & Explanation:

Option B is the right answer.

### Question 5:

A zero vector has

- A) Any direction
- B) Many directions
- C) No direction
- D) All of the above

#### [ANSWER] Answer & Explanation:

Option A is the right answer.

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