(EPC02-NE-01E)

- A vector whose magnitude is one is known as
    A) A free vector
    B) A unit vector
    C) Position vector
    D) A null vector

(EPC02-NE-02E)

- If a vector is divided by its magnitude, we get
    A) A unit vector
    B) A null vector
    C) Position vector
    D) A free vector

(EPC02-NE-03E)

- A vector which can be displaced parallel to itself and applied at any point, is known as
    A) A null vector
    B) A unit vector
    C) Position vector
    D) A free vector

(EPC02-NE-04E)

- Negative vector –A as compared with vector A has
    A) Same magnitude
    B) Opposite direction
    C) Same direction
    D) Both A & B

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(EPC02-NE-05M)

- If the resultant of two vectors each of magnitudes F is also of magnitude F, the angle between them will be

  A) 90^0

  B) 60^0

  C) 30^0

  D) 120^0

(EPC02-NE-06E)
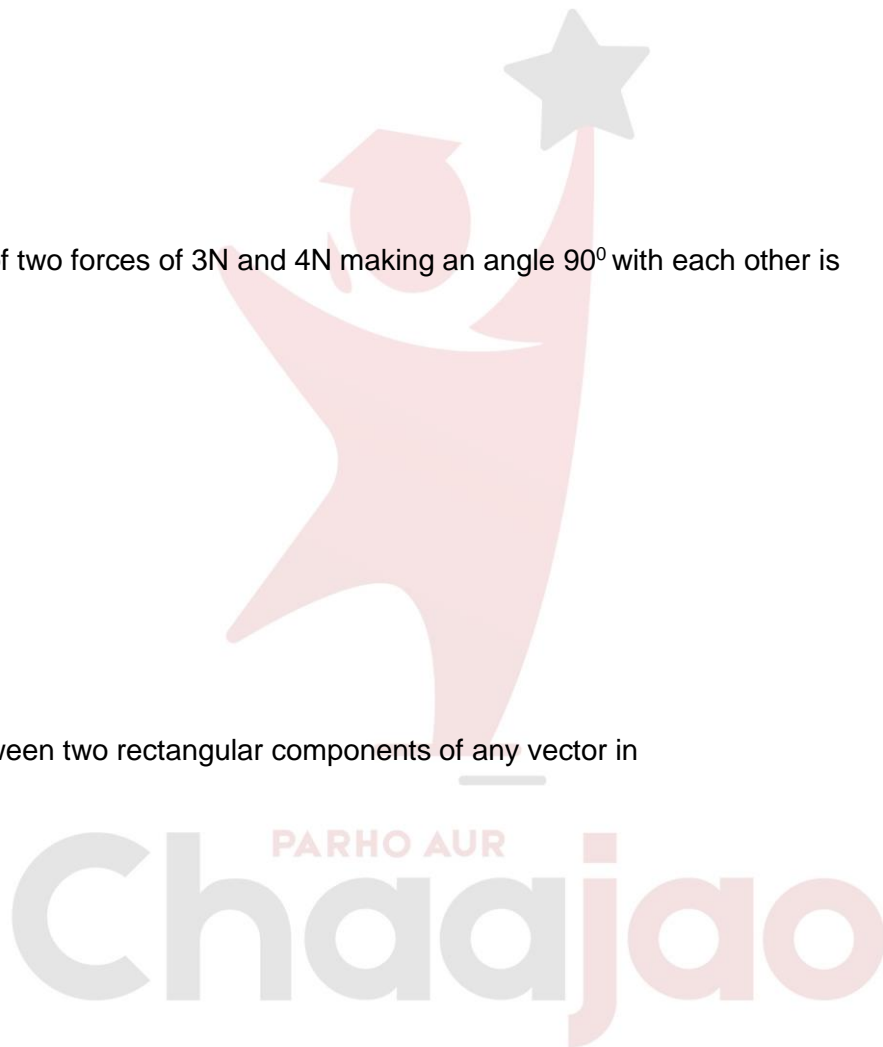
- The resultant of two forces of 3N and 4N making an angle 90^0 with each other is

  A) 1N

  B) 7N

  C) 5N

  D) 10N

(EPC02-NE-07E)

- The angle between two rectangular components of any vector in

  A) 90^0

  B) 60^0

  C) 30^0

  D) 120^0

(EPC02-NE-08M)

- If |A + B|= |A-B| the angle between the vectors is

  A) 0^0

  B) 45^0

  C) 60^0

  D) 90^0

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(EPC02-NE-09E)

- A force of magnitude 30N, making an angle of 60^0 with x-axis, its X component will be,

    A) 7N

    B) 15N

    C) 5N

    D) 10N

(EPC02-NE-10E)

- The direction of the vector A when X and Y components are given

    A) $\theta = \tan^{-1}(A_y/A_x)$

    B) $\theta = \tan^{-1}(A_x/A_y)$

    C) $\theta = \tan^{-1}(X/Y)$

    D) None of these

(EPC02-NE-11M)

- The property A.B = B.A in Scalar product is called

    A) Commutative property

    B) Associative property

    C) Multiplication inverse

    D) Additive inverse

(EPC02-NE-12M)

- Which of the following is correct

    A) i.j=k

    B) i.j=1

    C) i.j=0

    D) i.j=i

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(EPC02-NE-13E)

- The Scalar product of vectors A = 2i + 5k and B = 3j + 4k is

    A) 26

    B) 23

    C) 15

    D) 20

(EPC02-NE-14M)

- The angle between the two vectors -2i + 3j + k and i + 2j – 4k is

    A) 0^0

    B) 90^0

    C) 180^0

    D) None of the above

(EPC02-NE-15E)

- Which of the following is true

    A) A x B = B x A

    B) A x B = - B x A

    C) A x B = C x B

    D) A x B = C x A

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Answer Key	
1	B
2	A
3	D
4	D
5	D
6	C
7	A
8	D
9	B
10	A
11	A
12	C
13	D
14	B
15	B

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