

which of the following pair can't give resultant of 1) Magnitude 4.



Two forces of magnitude 8 N and 15 N respectively act at a point. If the resultant forces is 17 N, the angle between the forces has to be

- (1) 60°
- 2 45°
- 3 90°/
- 4 30°

$$R = \sqrt{A^2 + B^2 + 2AB6050}$$

$$289 = 64 + 225 + 16415 (30)$$

$$279 = 285 + 16415 (30)$$

$$0 = 16415 (30)$$

$$0 = 16415 (30)$$

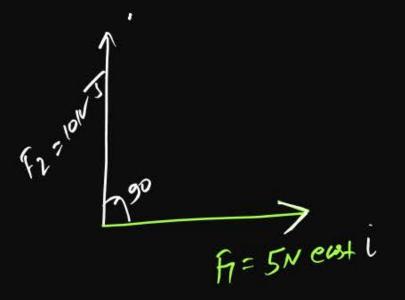
$$0 = 16415 (30)$$

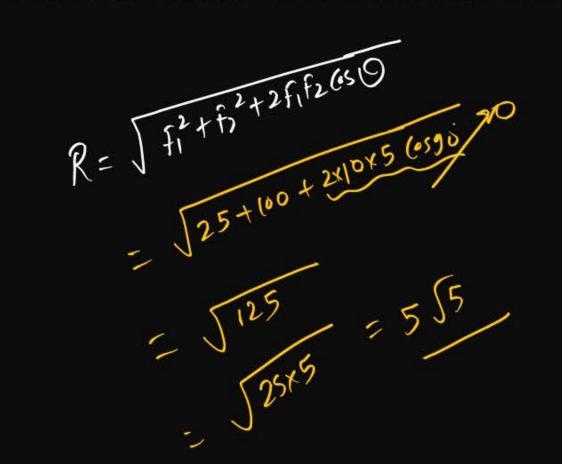


Two force  $\vec{F}_1 = 5N$  due east and  $F_2 = 10$  N due north then resultant of these two force is



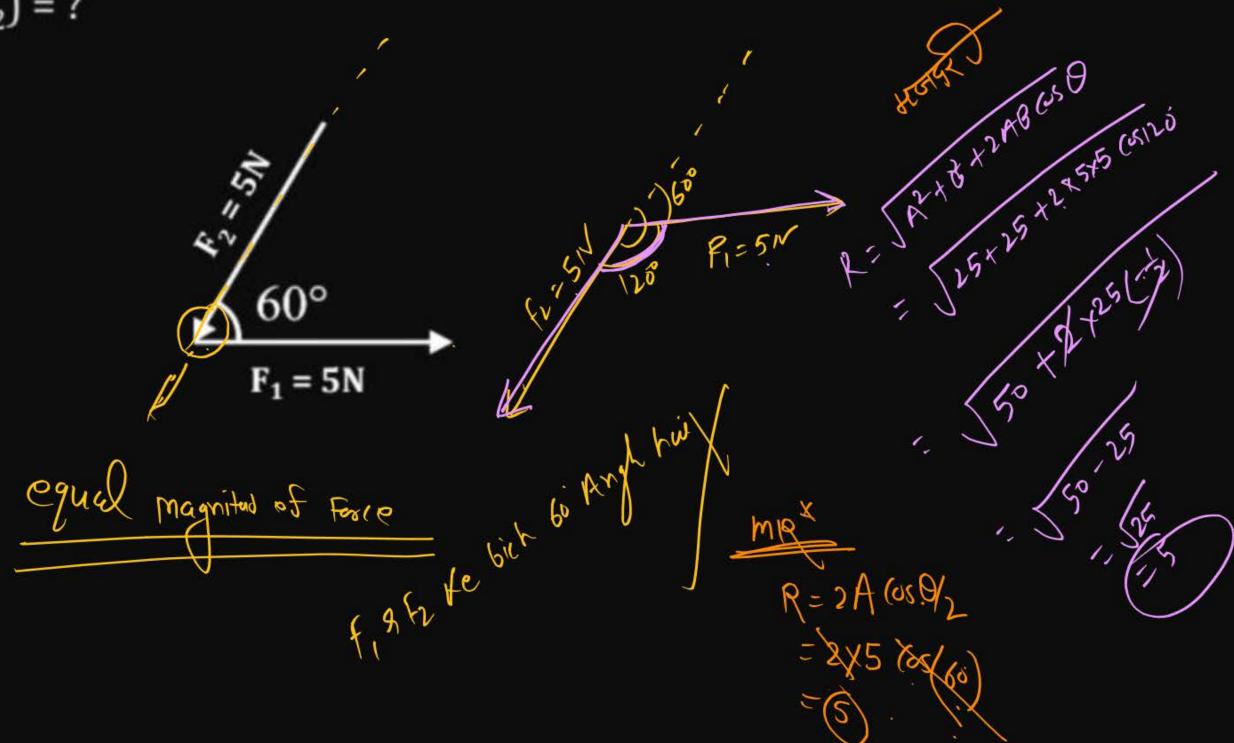
- 2 15 N
- 3 5 N
- $\sqrt{5}$  N







Find net force  $(\vec{F}_1 + \vec{F}_2) = ?$ 





Two forces of 10 N and 6 N act upon a body. The direction of the forces are unknown. The resultant forces on the body may be

- - 15 N
- 10+6=(1677)

- 2 31
- 3 17 N
- 4 2 N

- 10-6= (4Ng)
  - 3X
    - 2 X 1 ...



If  $\vec{R} = \vec{A} + \vec{B}$  and  $\vec{R} = \vec{A} + \vec{B}$  then angle between  $\vec{A}$  and  $\vec{B}$  must be

- 1 90°
- **2** 60°
- 3 0°
- 4 180°

$$\xrightarrow{A}_{B}$$

$$(A+B)^{2} = A^{2} + B^{2} + 2ABCOSIO$$

$$A+B = A+D = A+D + 2ABCO.$$

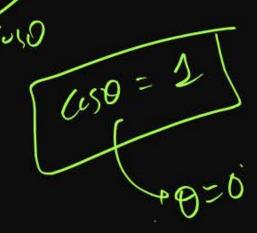
$$A+B+2AD = A+D + 2ABCO.$$

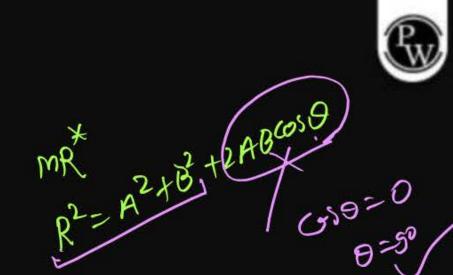
$$2AB = 2ABCO.$$

$$1 = (0.0)$$

$$1 = (0.0)$$

$$1 = 2ABCO.$$





If  $\vec{R} = \vec{A} + \vec{B}$  and  $R^2 = A^2 + B^2$  then angle between  $\vec{A}$  and  $\vec{B}$  may be

$$R^2 = R^2 + B^2 + RABRISQ$$
given in quel
$$R^2 = R^2 + B^2$$

$$3600 = \frac{0}{100} - 0$$



Two vector of magnitude 2 then resultant of these two vector may be?

- 1 2//
- 2 8<sub>×</sub>
- **3** 5 >
- $\bigcirc$  6

2+2=4 5× 2+2=4 321 Two force 5N and 2N acting on object then net force on object must Not be:  $\Rightarrow$ (a) 2N  $\times$  (b) 1N  $\times$  (c) 6N (d) both (a) 8(b)

$$\begin{array}{c}
5N + 2N \\
5N - 27
\end{array} = \begin{array}{c}
7N \\
5N \\
2N \\
2N \\
2N \\
1N
\end{array}$$

Vector A is 2m long at 60° above the + x axis and B'
is 2m long at 60° below the +x-axis then resultant will be:-

R = 2 m alog x-axis

R = 2A(392) = 2x 2x (3)(176) = 3x 2 = 2

1

9f vector Sym of Two mit vector then: - find Angle Blw unit vectors

a vnit vector

The vatio of Maximum and minimum magnitude of Resultant of two vectors of and b is 3:1 then 10% in term of 10%

$$\frac{a+b}{a-b} = \frac{3}{1}$$

$$a-b = R = a+b$$

$$m_1$$

$$a+b = 2a$$

$$2b = a$$

$$2b = a$$

find Angle 0/w two force 2P 3 J2P act so that resultent Force is PV10.

$$R^{2} = A^{2} + B^{2} + 2AB COSQ$$

$$10R^{2} = 4R^{2} + 2R^{2} + 2xxx P SR COLQ$$

Two Vector of magnitude 2, and 4, and resultant is 25 find Angle Blw vectors.

The Sum of the Magnitude of two force is 18 and magnitude of their resultant is 12. 9f Resultant is is cot 90° with the force of smaller magnitude, then what is magnitude of force Next curs

which of the combination of three force can give zero resultant.

(a) 2,4,7

(6) (3, 1,5)

next cla

(c) (2,8,11)

(d) (3,4,2)



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