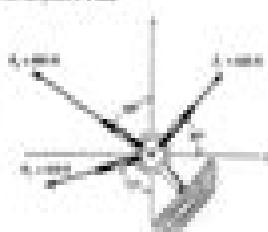


Q3. Determine the magnitude of the resultant force.
 $F_2 = 400 \text{ N}$ at 30° to horizontal, measured clockwise from the positive x-axis.



$$F_2 = \sqrt{F_{2x}^2 + F_{2y}^2} = \sqrt{400^2 \cos^2 30^\circ + 400^2 \sin^2 30^\circ} = 400 \text{ N}$$
$$F_{2x} = 400 \cos 30^\circ = 346 \text{ N}$$
$$F_{2y} = 400 \sin 30^\circ = 200 \text{ N}$$

Q4. Determine the magnitude of the resultant force F .
 $F_1 = 200 \text{ N}$, $F_2 = 150 \text{ N}$, $F_3 = 100 \text{ N}$.

Prerequisite: The parallelogram of forces is known.
Fig 1.10.10

Prerequisite: Resultant of three vectors is known.

$$\text{a) } F = \sqrt{F_1^2 + F_2^2 + 2F_1F_2 \cos 120^\circ} = 300 \text{ N}$$
$$\text{b) } F = \sqrt{F_1^2 + F_2^2 + 2F_1F_2 \cos 60^\circ} = 350 \text{ N}$$



(a)

(b)



(c)

(d)

Q5. Determine the magnitude of the resultant force.
 $F_1 = 500 \text{ N}$ at 30° to horizontal, measured clockwise from the positive x-axis.



$$F_1 = \sqrt{F_{1x}^2 + F_{1y}^2} = \sqrt{500^2 \cos^2 30^\circ + 500^2 \sin^2 30^\circ} = 500 \text{ N}$$
$$F_{1x} = 500 \cos 30^\circ = 433 \text{ N}$$
$$F_{1y} = 500 \sin 30^\circ = 250 \text{ N}$$

Q6. Determine the magnitude of the resultant force.
 $F_2 = 400 \text{ N}$, $F_3 = 300 \text{ N}$ and horizontal, measured clockwise from the positive x-axis.



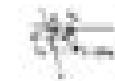
$$F_2 = \sqrt{F_{2x}^2 + F_{2y}^2} = \sqrt{400^2 \cos^2 90^\circ + 400^2 \sin^2 90^\circ} = 400 \text{ N}$$
$$F_{2x} = 400 \cos 90^\circ = 0 \text{ N}$$
$$F_{2y} = 400 \sin 90^\circ = 400 \text{ N}$$

Q7. Resolve the force F into components acting along the x and y axes and determine the magnitudes of the components.



$$F_x = F \cos \theta$$
$$F_x = 500 \cos 30^\circ = 433 \text{ N}$$

$$F_y = F \sin \theta$$
$$F_y = 500 \sin 30^\circ = 250 \text{ N}$$



Q8. Resolve the force F into components acting along the x and y axes and determine the magnitudes of the components.

$$F_x = F \cos \theta$$
$$F_x = 500 \cos 30^\circ = 433 \text{ N}$$

$$F_y = F \sin \theta$$
$$F_y = 500 \sin 30^\circ = 250 \text{ N}$$

Q9. The force F is applied in the line between A and B at distance $AB = 40^\circ$, determine the magnitude of the resultant of three force lines and its direction measured from the horizontal.

Prerequisite: The parallelogram of forces is known.
Fig 1.10.10

Prerequisite: Resultant of three vectors is known.

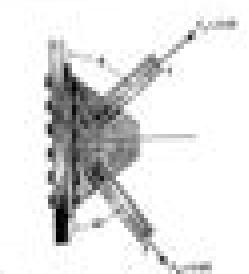
$$F = \sqrt{F_1^2 + F_2^2 + 2F_1F_2 \cos 120^\circ} = \sqrt{400^2 + 300^2 + 2 \cdot 400 \cdot 300 \cos 120^\circ} = 500 \text{ N}$$

The angle θ can be determined using the cosine rule.

$$\cos \theta = \frac{F_1^2 + F_2^2 - F^2}{2F_1F_2}$$
$$\cos \theta = \frac{400^2 + 300^2 - 500^2}{2 \cdot 400 \cdot 300}$$
$$\cos \theta = -0.5$$

From the calculator $\theta = 120^\circ$

$$\theta = 180^\circ - 120^\circ = 60^\circ$$



AB

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