

Answers of accumulative exercise on what have been studied before

1

(1) (c)

(2) (d)

2

Let the measure of the angle between 2nd and 3rd force is α ,

$\therefore$ The three forces are in equilibrium.

$\therefore$ The resultant of the two forces 5 + 6 is equal to force 4 in magnitude

$$\therefore (4)^2 = (5)^2 + (6)^2 + 2 \times 5 \times 6 \cos \alpha$$

$$\therefore \cos \alpha = \frac{-3}{4} \quad \therefore \alpha = 138^\circ 35'$$

3

In the figure, by using Lami's rule

$$\therefore \frac{600}{\sin 90^\circ} = \frac{F}{\sin 150^\circ} = \frac{T}{\sin 120^\circ}$$

$$\therefore \frac{600}{1} = \frac{F}{\left(\frac{1}{2}\right)} = \frac{T}{\left(\frac{\sqrt{3}}{2}\right)}$$

$$\therefore F = 300 \text{ gm.wt.}, T = 300\sqrt{3} \text{ gm.wt.}$$



4

$$\therefore (25)^2 + (60)^2 = (65)^2$$

$\therefore \Delta ABC$ is right-angled triangle at C from Lami's rule:

$$\therefore \frac{26}{\sin 90^\circ} = \frac{T_1}{\sin \theta_1} = \frac{T_2}{\sin \theta_2}$$

$$\therefore \sin \theta_1 = \frac{BC}{AB} = \frac{60}{65} = \frac{12}{13}$$

$$\therefore \sin \theta_2 = \frac{AC}{AB} = \frac{25}{65} = \frac{5}{13}$$

$$\therefore T_1 = 26 \times \frac{12}{13} = 24 \text{ newton.}$$

$$\therefore T_2 = 26 \times \frac{5}{13} = 10 \text{ newton.}$$



5

Applying Lami's rule:

$$\frac{12}{\sin 150^\circ} = \frac{9}{\sin \theta} = \frac{W}{\sin (30^\circ + \theta)}$$

$$\therefore \sin \theta = \frac{3}{8} \quad \therefore m(\angle \theta) = 22^\circ 1'$$

$$\therefore W = 18.9 \text{ newton.}$$



6

$\therefore$ The system is in equilibrium

$\therefore \vec{R}$ passes through H,

let $BC = 2L$

$\therefore AB = 4L$

$$\therefore AC = 2\sqrt{3}L$$

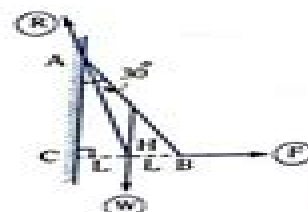
$$\therefore AH = \sqrt{13}L$$

$\therefore \Delta AHC$ is the triangle of forces

Applying triangle of forces rule,

$$\therefore \frac{W}{2\sqrt{3}L} = \frac{F}{L} = \frac{R}{\sqrt{13}L}$$

$$\therefore F = \frac{\sqrt{3}}{6}W, R = \frac{\sqrt{39}}{6}W$$



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