Mathematics

Question 1:

Write down a unit vector in XY-plane, making an angle of 30° with the positive direction of x-axis.

Answer 1:

If $\vec{r}$ is a unit vector in the XY- plane , then $\vec{r} = \cos\theta\,\hat{\imath} + \sin\theta\,\hat{\jmath}$

Here, θ is the angle made by the unit vector with the positive direction of the x-axis.

Therefore, for θ = 30°:

$$\vec{r} = \cos 30^0\,\hat{\imath} + \sin 30^0\,\hat{\jmath} = \frac{\sqrt{3}}{2}\hat{\imath} + \frac{1}{2}\hat{\jmath}$$

Hence, the required unit vector is $\frac{\sqrt{3}}{2}\hat{\imath} + \frac{1}{2}\hat{\jmath}$

Question 2:

Find the scalar components and magnitude of the vector joining the points $P(x_1, y_1, z_1)$ and $Q(x_2, y_2, z_2)$

Answer 2:

The vector joining the point $P(x_1, y_1, z_1)$ and $Q(x_2, y_2, z_2)$ $\overrightarrow{PQ}$ = Position vector of Q − Position vector of P

$$= (x_2 - x_1)\hat{\imath} + (y_2 - y_1)\hat{\jmath} + (z_2 - z_1)\hat{k}$$

$$\left|\overrightarrow{PQ}\right| = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2 + (z_2 - z_1)^2}$$

Hence, the scalar components and the magnitude of the vector joining the given points are respectively

$\{(x_2 - x_1), (y_2 - y_1), (z_2 - z_1)\}$ and $\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2 + (z_2 - z_1)^2}$.

Question 3:

A girl walks 4 km towards west, then she walks 3 km in a direction 30° east of north and stops. Determine the girl's displacement from her initial point of departure.

Answer 3:

Let O and B be the initial and final positions of the girl respectively.
Then, the girl's position can be shown as:
Now we have , $\overrightarrow{OA} = -4\hat{\imath}$

$$\overrightarrow{AB} = \hat{\imath}\left|AB\right|\cos 60^0 + \hat{\jmath}\left|AB\right|\sin 60^0$$

$$= \hat{\imath}3 \times \frac{1}{2} + \hat{\jmath}3 \times \frac{\sqrt{3}}{2}$$

$$= \frac{3}{2}\hat{\imath} + \frac{3\sqrt{3}}{2}\hat{\jmath}$$

By the triangle law of vector addition, we have:

$$\overrightarrow{OB} = \overrightarrow{OA} + \overrightarrow{AB}$$

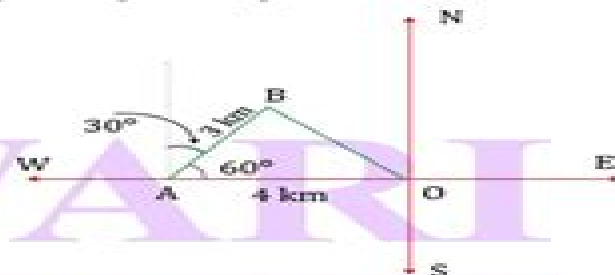$$\Rightarrow (-4\hat{\imath}) + \left(\frac{3}{2}\hat{\imath} + \frac{3\sqrt{3}}{2}\hat{\jmath}\right)$$

$$= \left(-4 + \frac{3}{2}\right)\hat{\imath} + \left(\frac{3\sqrt{3}}{2}\right)\hat{\jmath}$$

$$\Rightarrow \left(\frac{-8 + 3}{2}\right)\hat{\imath} + \left(\frac{3\sqrt{3}}{2}\right)\hat{\jmath}$$

$$= \frac{-5}{2}\hat{\imath} + \frac{3\sqrt{3}}{2}\hat{\jmath}$$

Hence, the girl's displacement from her initial point of departure is $\frac{-5}{2}\hat{\imath} + \frac{3\sqrt{3}}{2}\hat{\jmath}$

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