

EXERCISE 6.1

1. Prove by vector method that if a line is drawn from the centre of a circle to the midpoint of a chord, then the line is perpendicular to the chord.

Solution: AB is the chord.



C is the midpoint of AB.

O is the centre of the circle.

Then $OA = OB$ [Radius]

Let $\vec{OA} = \vec{a}$ and $\vec{OB} = \vec{b}$

Then $\vec{OC} = \frac{\vec{a} + \vec{b}}{2}$

$$\begin{aligned}\vec{AB} &= \vec{OB} - \vec{OA} \\ &= \vec{b} - \vec{a}\end{aligned}$$

$$\begin{aligned}\text{Now } \vec{OC} \cdot \vec{AB} &= \left(\frac{\vec{a} + \vec{b}}{2}\right) \cdot (\vec{b} - \vec{a}) \\ &= \frac{1}{2} (\vec{a} + \vec{b}) \cdot (\vec{b} - \vec{a}) \\ &= \frac{1}{2} [(\vec{b})^2 - (\vec{a})^2] \\ &= \frac{1}{2} [(\vec{OB})^2 - (\vec{OA})^2] \\ &= \frac{1}{2} [(OB)^2 - (OA)^2] \\ &= 0\end{aligned}$$

$\therefore \vec{OC}$ is \perp to \vec{AB} . Hence proved.

2. Prove by vector method that the median to the base of an isosceles triangle is perpendicular to the base.

Solution: Let OAB be an isosceles triangle with $OA = OB$

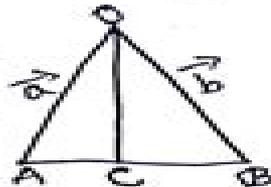
OC be the median to AB

C is the midpoint of AB.

Take O as the origin.

Let $\vec{OA} = \vec{a}$ and $\vec{OB} = \vec{b}$

Then $\vec{OC} = \frac{\vec{a} + \vec{b}}{2}$



$$\begin{aligned}\vec{AB} &= \vec{OB} - \vec{OA} \\ &= \vec{b} - \vec{a}\end{aligned}$$

$$\begin{aligned}\text{Now } \vec{OC} \cdot \vec{AB} &= \left(\frac{\vec{a} + \vec{b}}{2}\right) \cdot (\vec{b} - \vec{a}) \\ &= \frac{1}{2} (\vec{a} + \vec{b}) \cdot (\vec{b} - \vec{a}) \\ &= \frac{1}{2} [(\vec{b})^2 - (\vec{a})^2] \\ &= \frac{1}{2} [(\vec{OB})^2 - (\vec{OA})^2] \\ &= \frac{1}{2} [(OB)^2 - (OA)^2] \\ &= 0\end{aligned}$$

$\therefore \vec{OC}$ is \perp to \vec{AB} . Hence proved.

3. Prove by vector method that an angle in a semi-circle is a right angle.

Solution:



Let AB be the diameter of the circle with centre at O.

Let P be any point on the circle.

To prove $\angle APB = 90^\circ$

We know that $OA = OB = OP$ (radii)

Now $\vec{PA} = \vec{PO} + \vec{OA}$ and

$$\begin{aligned}\vec{PB} &= \vec{PO} + \vec{OB} \\ &= \vec{PO} - \vec{OA} \quad (\text{since } \vec{OB} = -\vec{OA})\end{aligned}$$

$$\begin{aligned}\vec{PA} \cdot \vec{PB} &= (\vec{PO} + \vec{OA}) \cdot (\vec{PO} - \vec{OA}) \\ &= (\vec{PO})^2 - (\vec{OA})^2 \\ &= (PO)^2 - (OA)^2\end{aligned}$$

$$\vec{PA} \cdot \vec{PB} = 0$$

That is \vec{PA} is \perp r to \vec{PB}

This gives $\angle APB = 90^\circ$

Trigonometry Practice Problems With Solutions

Léo Pomar



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