

Subject - Math AI(Higher Level)
Topic - Geometry and Trigonometry
Year - May 2021 - Nov 2022
Paper -1
Questions

Question 1

[Maximum mark: 6]

A particle P moves with velocity $\mathbf{v} = \begin{pmatrix} 15 \\ 2 \\ -4 \end{pmatrix}$ in a magnetic field, $\mathbf{B} = \begin{pmatrix} 0 \\ d \\ 1 \end{pmatrix}$, $d \in \mathbb{R}$.

- (a) Given that \mathbf{v} is perpendicular to \mathbf{B} , find the value of d . [2]

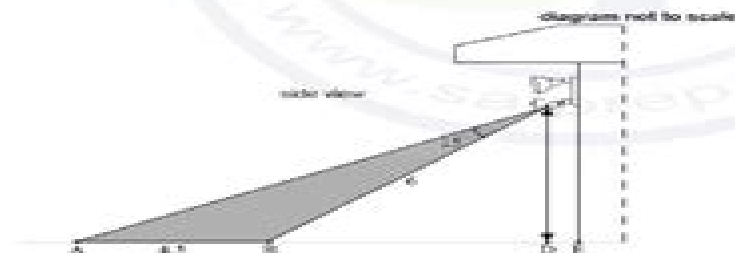
The force, \mathbf{F} , produced by P moving in the magnetic field is given by the vector equation $\mathbf{F} = a\mathbf{v} \times \mathbf{B}$, $a \in \mathbb{R}^+$.

- (b) Given that $|\mathbf{F}| = 14$, find the value of a . [4]

Question 2

[Maximum mark: 8]

Ollie has installed security lights on the side of his house that are activated by a sensor. The sensor is located at point C directly above point D . The area covered by the sensor is shown by the shaded region enclosed by triangle ABC . The distance from A to B is 4.5 m and the distance from B to C is 6 m. Angle \widehat{ACB} is 15° .



- (a) Find \widehat{CAB} . [3]

Point B on the ground is 5 m from point E at the entrance to Ollie's house. He is 1.8 m tall and is standing at point D , below the sensor. He walks towards point B .

- (b) Find the distance Ollie is from the entrance to his house when he first activates the sensor. [5]

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