

1. Find the cosine of the angle between the two vectors $\begin{pmatrix} 3 \\ 4 \end{pmatrix}$ and $\begin{pmatrix} -2 \\ 1 \end{pmatrix}$. (Total 6 marks)

2. The vectors \vec{i} , \vec{j} are unit vectors along the x -axis and y -axis respectively.
The vectors $\vec{u} = -\vec{i} + 2\vec{j}$ and $\vec{v} = 3\vec{i} + 5\vec{j}$ are given.

- (a) Find $\vec{u} + 2\vec{v}$ in terms of \vec{i} and \vec{j} .

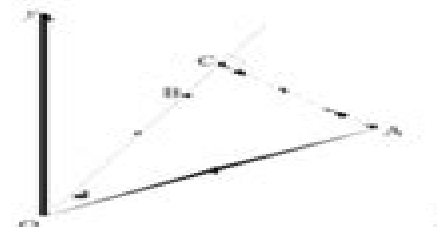
A vector \vec{w} has the same direction as $\vec{u} + 2\vec{v}$, and has a magnitude of 26.

- (b) Find \vec{w} in terms of \vec{i} and \vec{j} . (Total 4 marks)

3. The following diagram shows the point O with coordinates $(0, 0)$, the point A with position vector $\vec{a} = 12\vec{i} + 5\vec{j}$, and the point B with position vector $\vec{b} = 6\vec{i} + 8\vec{j}$. The angle between (OA) and (OB) is θ .

Find

- (i) $|\vec{a}|$;
(ii) a unit vector in the direction of \vec{b} ;
(iii) the **exact** value of $\cos\theta$ in the form $\frac{p}{q}$, where, $p, q \in \mathbb{Z}$. (6 marks)



4. The circle shown has centre O and radius 6. \overrightarrow{OA} is the vector $\begin{pmatrix} 6 \\ 0 \end{pmatrix}$, \overrightarrow{OB} is the vector $\begin{pmatrix} -6 \\ 0 \end{pmatrix}$ and \overrightarrow{OC} is the vector $\begin{pmatrix} 5 \\ \sqrt{11} \end{pmatrix}$.

- (a) Verify that A , B and C lie on the circle. (3)
(b) Find the vector \overrightarrow{AC} . (2)
(c) Using an appropriate scalar product, or otherwise, find the cosine of angle OAC . (3)
(d) Find the area of triangle ABC , giving your answer in the form $a\sqrt{11}$, where $a \in \mathbb{N}$. (4)



(Total 12 marks)

5. The quadrilateral $OABC$ has vertices with coordinates $O(0, 0)$ $A(5, 1)$ $B(10, 5)$ and $C(2, 7)$.

- (a) Find the vectors \overrightarrow{OB} and \overrightarrow{AC} .
(b) Find the angle between the diagonals of the quadrilateral $OABC$. (Total 4 marks)

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