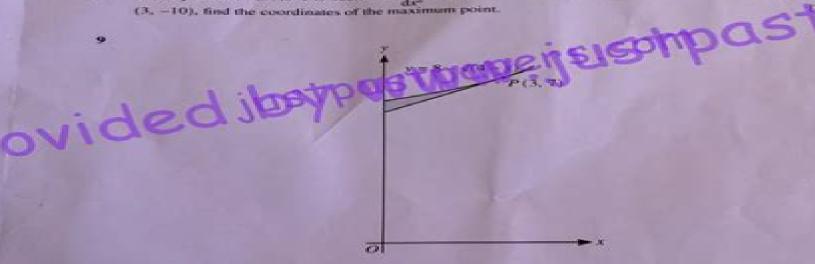


The diagram shows a trapezium ABCD in which BA is parallel to CD. The position vectors of A, B and C relative to an origin O are given by

gin
$$O$$
 are given by
$$\overrightarrow{OA} = \begin{pmatrix} 3 \\ 4 \\ 0 \end{pmatrix}, \quad \overrightarrow{OB} = \begin{pmatrix} 1 \\ 3 \\ 2 \end{pmatrix} \quad \text{and} \quad \overrightarrow{OC} = \begin{pmatrix} 4 \\ 5 \\ 6 \end{pmatrix}.$$

- (i) Use a scalar product to show that AB is perpendicular to BC.
- (ii) Given that the length of CD is 12 units, find the position vector of D.
- 8 The equation of a curve is such that $\frac{d^2y}{dx^2} = 2x 1$. Given that the curve has a minimum point at (3, -10), find the coordinates of the maximum point.



The diagram shows part of the curve $y = 8 - \sqrt{(4 - x)}$ and the tangent to the curve at P(3, 7).

- (i) Find expressions for $\frac{dy}{dx}$ and $\int y dx$.
- (ii) Find the equation of the tangent to the curve at P in the form y = mx + c.
- (iii) Find, showing all necessary working, the area of the shaded region.

[4]

[5]

121

131

141

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