



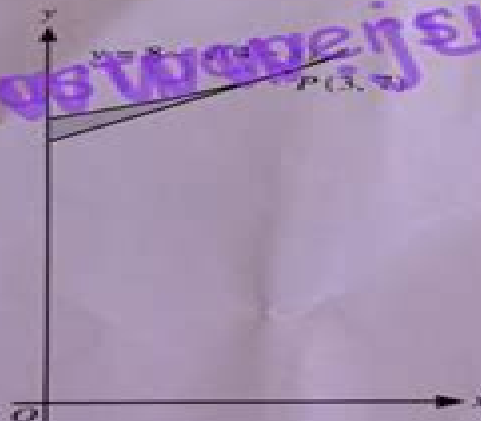
The diagram shows a trapezium $ABCD$ in which BA is parallel to CD . The position vectors of A , B and C relative to an origin O are given by

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

- (i) Use a scalar product to show that AB is perpendicular to BC . [3]
 (ii) Given that the length of CD is 12 units, find the position vector of D . [4]

- 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. [8]

9



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 $\int y \, dx$. [5]
 (ii) Find the equation of the tangent to the curve at P in the form $y = mx + c$. [2]
 (iii) Find, showing all necessary working, the area of the shaded region. [4]

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