



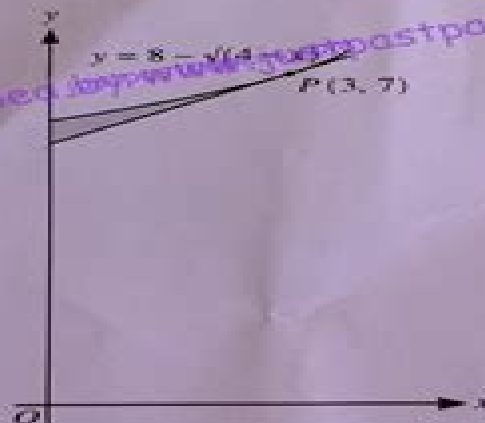
The diagram shows a trapezium  $ABCD$  in which  $BA$  is parallel to  $CD$ . The position vectors of  $A$ ,  $B$  and  $C$  relative to an origin  $O$  are given by

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

- (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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