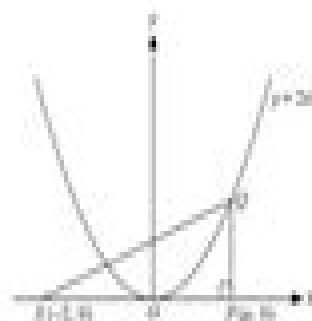


1. Given that  $P$  is an object moving in a straight line and that the velocity  $v$  in m/s, is given by
- $v = 4t$  (1)
  - $v = 4t^2$  (2)
  - $v = 4t^3 + 4t$  (3)



The diagram shows the curve  $y = 2x^2$  and the points  $P(2, 8)$  and  $Q(1, 2)$ . The point  $Q$  lies on the curve and  $PQ$  is parallel to the  $y$ -axis.

- Express the area,  $A$ , of triangle  $OPQ$  in terms of  $x$ . (3)
  - The point  $P$  moves along the  $x$ -axis at a constant rate of 100 units per second and  $Q$  moves along the curve so that  $PQ$  remains parallel to the  $y$ -axis.
    - Find the rate at which  $A$  is increasing when  $x = 2$ . (3)
2. (a) Find the first three terms, in ascending powers of  $x$ , in the expansion of
- $(1 - x)^2$ . (2)
  - $(1 + 3x)^2$ . (2)
- (b) Hence find the coefficient of  $x^2$  in the expansion of  $[(1 - x)(1 + 3x)]^2$ . (2)
3. Relative to the origin  $O$ , the position vectors of points  $A$  and  $B$  are given by

$$\vec{OA} = \begin{pmatrix} 1 \\ 2 \\ -1 \end{pmatrix} \quad \text{and} \quad \vec{OB} = \begin{pmatrix} 2 \\ 1 \\ 1 \end{pmatrix}$$

$$A = \frac{1}{2}bh$$

$$b = (P + 2)$$

$$h = 2P^2$$

$$A = \frac{1}{2}(P + 2)(2P^2)$$

$$= \frac{1}{2}(2P^2 + 4P^2)$$

$$A = P^3 + 2P^2$$

$$\frac{dA}{dt} = \frac{dA}{dP} \cdot \frac{dP}{dt}$$

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