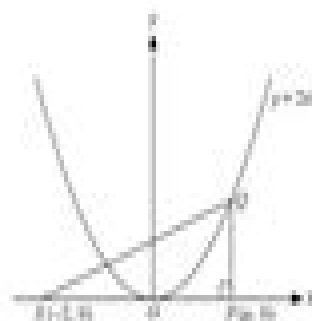


1. Given that P is an object moving in a straight line and that the velocity v of P is expressed by
- $v = 4t$ (1)
 - $v = 4t^2$ (2)
 - $v = 4t^3 + 4t$ (3)



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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