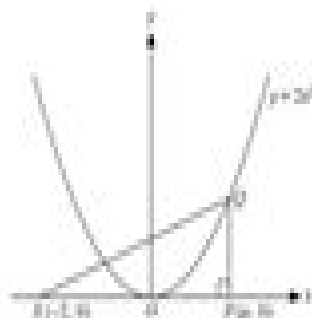


1. Given the function whose graph is shown in the figure and the curve $y = 2x^2$, find, in terms of x , an expression for
- (a) $\text{area } A$ (3)
 - (b) $\text{area } B$ (3)
 - (c) $\text{area } A + B$ (3)



The diagram shows the curve $y = 2x^2$ and the line $y = x + 2$. The point P lies on the curve and PQ is parallel to the y -axis.

- (a) Express the area, A , of triangle APQ in terms of p . (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.
 - (b) Find the rate at which A is increasing when $p = 1$. (3)
2. (a) Find the first three terms, in ascending powers of x , of the expansion of
- (i) $(1 - x)^2$, (3)
 - (ii) $(1 + 3x)^2$. (3)
- (b) Hence find the coefficient of x^2 in the expansion of $(1 - x)^2(1 + 3x)^2$. (3)

3. Relative to the origin O , the position vectors of points A and B are given by

$$\vec{OA} = \begin{pmatrix} 1 \\ 2 \\ 3 \end{pmatrix} \quad \text{and} \quad \vec{OB} = \begin{pmatrix} 2 \\ 3 \\ 4 \end{pmatrix}$$

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

$$b = (P + 2)$$

$$h = 2P^2$$

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

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

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

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

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Resources in Education ,1998 **The Arithmetic Teacher** ,1990 *Building World* ,1898 The Schoolmaster and Women Teacher's Chronicle ,1961 *ACE Bulletin* ,1993 **The Australian Journal of Education** ,1992

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