

- 7 The point C lies on the perpendicular bisector of the line joining the points $A(4, 6)$ and $B(10, 2)$. C also lies on the line parallel to AB through $(3, 11)$.

- (i) Find the equation of the perpendicular bisector of AB . [4]
 (ii) Calculate the coordinates of C . [3]

- 8 (a) The first, second and last terms in an arithmetic progression are 56, 53 and -22 respectively. Find the sum of all the terms in the progression. [4]

- (b) The first, second and third terms of a geometric progression are $2k + 6$, $2k$ and $k + 2$ respectively, where k is a positive constant.

- (i) Find the value of k . [3]
 (ii) Find the sum to infinity of the progression. [2]

- 9 Relative to an origin O , the position vectors of points A and B are given by

$$\overrightarrow{OA} = 2\mathbf{i} + 4\mathbf{j} + 4\mathbf{k} \quad \text{and} \quad \overrightarrow{OB} = 3\mathbf{i} + \mathbf{j} + 4\mathbf{k}.$$

- (i) Use a vector method to find angle AOB . [4]

The point C is such that $\overrightarrow{AB} = \overrightarrow{BC}$.

- (ii) Find the unit vector in the direction of $\overrightarrow{OC}$. [4]
 (iii) Show that triangle OAC is isosceles. [1]

- 10 The equation of a curve is $y = \frac{4}{2x^2 - 1}$.

- (i) Find, showing all necessary working, the volume obtained when the region bounded by the curve, the x -axis and the lines $x = 1$ and $x = 2$ is rotated through 360° about the x -axis. [4]

- (ii) Given that the line $2y = x + c$ is a normal to the curve, find the possible values of the constant c . [6]

- 11 The function f is defined by $f : x \mapsto 2x^2 - 6x + 5$ for $x \in \mathbb{R}$.

- (i) Find the set of values of p for which the equation $f(x) = p$ has no real roots. [3]

The function g is defined by $g : x \mapsto 2x^2 - 6x + 5$ for $0 \leq x \leq 4$.

- (ii) Express $g(x)$ in the form $a(x + b)^2 + c$, where a , b and c are constants. [3]

- (iii) Find the range of g . [2]

The function h is defined by $h : x \mapsto 2x^2 - 6x + 5$ for $k \leq x \leq 4$, where k is a constant.

- (iv) State the smallest value of k for which h has an inverse. [1]

- (v) For this value of k , find an expression for $h^{-1}(x)$. [3]



Mathematics A Levels May June 2015

Wenbin Ji



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