

- 5 (i) Show that the equation $1 + \sin x \tan x = 5 \cos x$ can be expressed as

$$6 \cos^2 x - \cos x - 1 = 0. \quad [3]$$

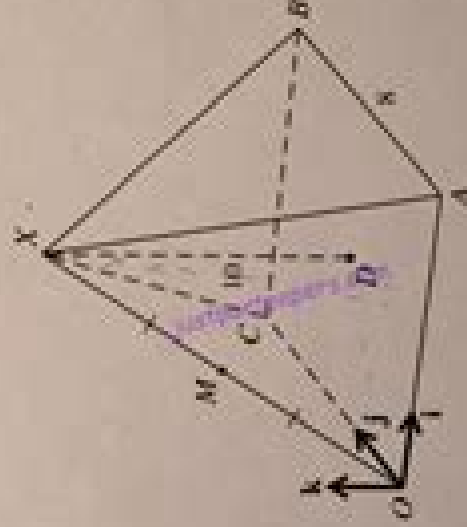
- (ii) Hence solve the equation $1 + \sin x \tan x = 5 \cos x$ for $0^\circ \leq x \leq 180^\circ$. [3]

- 6 The equation of a curve is $y = x^3 + ax^2 + bx$, where a and b are constants.

- (i) In the case where the curve has no stationary point, show that $a^2 < 3b$. [3]

- (ii) In the case where $a = -6$ and $b = 9$, find the set of values of x for which y is a decreasing function of x . [3]

7



The diagram shows a pyramid $OABCX$. The horizontal square base $OABC$ has side 8 units and the centre of the base is D . The top of the pyramid, X , is vertically above D and $XD = 10$ units. The mid-point of OX is M . The unit vectors i and j are parallel to $\overrightarrow{OA}$ and $\overrightarrow{OC}$ respectively and the unit vector k is vertically upwards.

- (i) Express the vectors $\overrightarrow{AM}$ and $\overrightarrow{AC}$ in terms of i , j and k . [3]

- (ii) Use a scalar product to find angle MAC . [4]

- 8 (a) The sum, S_n , of the first n terms of an arithmetic progression is given by $S_n = 32n - n^2$. Find the first term and the common difference. [3]

- (b) A geometric progression in which all the terms are positive has sum to infinity 20. The sum of the first two terms is 12.8. Find the first term of the progression. [5]

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