(i) Show that the equation 1 + sinx tan x = 5 cos, r can be expressed as 100

$$6\cos^2x - \cos x - 1 = 0,$$

玉

8

(ii) Hence solve the equation 1 + sin x tan x = 5 cos x for 0° ∈ x ∈ 180°.

The equation of a curve is $y = x^3 + \alpha x^2 + bx$, where α and b are constants. 40

(B) In the case where the curve has no stationary point, show that a² < 3b.

8

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

1

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 OA and OC respectively and the unit vector k is vertically upwards.

(i) Express the vectors AM and AC in terms of L J and R

图

E

(ii) Use a scalar preduct to find angle MAC.

The sum, S_a , of the first a terms of an arithmetic progression is given by $S_a = \lambda 2n - n^2$. Find the first term and the common difference. 3 100

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. 3

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