

KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2011/2012

INSTITUTIONAL BASED PROGRAMME (IBP) (DECEMBER SESSION)

EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE

SMA 431: DIFFERENTIAL GEOMETRY

DATE: Wednesday 2rd May 2012

TIME:

8.00a, m - 10.00a, m

INSTRUCTIONS:

Answer question ONE and any TWO of the remaining questions. Show all the necessary working

QUESTION ONE (30 MARKS)

a) Define direction cosine of a vector a show that

$$Cos\theta_i = \frac{a_i}{|a|}$$
. $i = 1, 2, 3$

[4marks]

- b) The graph of the equation $r=2 \cos \theta -1$, $0 \le \theta \le 2 \pi$ in polar coordinates represents a curve. Show that this representation is regular.
- Find the equation of the tangent line and normal plane to the curve
 x_I = (I + t) , x₂ = -t² , x₃ = (I + t²)
 [5marks]
- d) Define curvature vector of a curve.

Find the curvature vector \vec{k} and curvature k on the curve

$$x = t e_1 + \frac{1}{2}t^2 e_2 + \frac{1}{3}t^3 e_3$$

[7marks]

- e) Show that a curve of class ≥ 3 along which n is of class C¹ is a plane curve if and only if its torsion vanishes identically.
- f) Find the equation of the tangent plane and normal line to the surface represented by

$$\bar{x} = u \ \bar{e}_1 + v \ \bar{e}_2 + (u^2 - v^2) \ \bar{e}_3$$

at the point corresponding to u = I, v = I.

[5marks]

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