



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 2nd 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 \vec{a} show that

$$\cos \theta_i = \frac{a_i}{|\vec{a}|}, \quad i = 1, 2, 3 \quad [4\text{marks}]$$

- b) The graph of the equation $r = 2 \cos \theta - 1$, $0 \leq \theta \leq 2\pi$ in polar coordinates represents a curve. Show that this representation is regular. [4marks]

- c) Find the equation of the tangent line and normal plane to the curve $x_1 = (1+t)$, $x_2 = -t^2$, $x_3 = (1+t^2)$ [5marks]

- d) Define curvature vector of a curve.

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

$$\vec{x} = t \vec{e}_1 + \frac{1}{2} t^2 \vec{e}_2 + \frac{1}{3} t^3 \vec{e}_3 \quad [7\text{marks}]$$

- e) Show that a curve of class ≥ 3 along which \vec{n} is of class C^1 is a plane curve if and only if its torsion vanishes identically. [5marks]

- f) Find the equation of the tangent plane and normal line to the surface represented by

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

at the point corresponding to $u = 1$, $v = 1$.

[5marks]

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