MATH 153 Summer 2005 Calculus

Lecturer: Oguz KURT Name: _____

Quiz 3

1. (10 points) Sketch the graph of the equation $16x^2 - 9y^2 + 192x + 90y + 207 = 0$. Give all possible information about the graph. If it is a conic, give the information about the directix,focus, eccentricity and asymptotes(if possible).

Midterm 2

2. (10 points) Translate the equation $r - 5\cos\theta = 0$ from polar coordinates to the cartesian coordinates.

$(r - 5\cos\theta = 0) \times r$

$r^2 - 5r\cos\theta = 0$

$r^2 = x^2 + y^2$

$r\cos\theta = x$

$\boxed{x^2 + y^2 - 5x = 0}$