Izmir University of Economics, Department of Mathematics

Матн 205	Analytic Geometry	Quiz 6	01.12.2004
Name		Student No.	E-mail

You will not get any points if your answer is wrong, that is no points to your explanations if your answer is wrong. And of course no points to a correct answer if your explanation or proof is not correct or clear.

YOU must write GOOD Mathematics

- 1. Use discriminant test to decide the type of the conic for the following equations;
 - (a) $xy + y^2 3x = 5$,
 - (b) $x^2 3xy + 3y^2 + 6y = 7$,
 - (c) $x^2 4xy + 4y^2 5 = 0$.

- 2. Find parametric equations and a parameter interval for the motion of the particle that starts at (a, 0) and traces the ellipse $\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$;
 - (a) once clockwise,
 - (b) twice counterclockwise.