

İzmir University of Economics, Department of Mathematics

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MATH 205 ANALYTIC GEOMETRY

Quiz 2

31.10.2005

Name

Student No.

Sign

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*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 geometric definition to find the equation of the parabola with focus  $F = (2, 2)$  and directrix  $x = -2$ .

*Solution:*

2. Find the foci, vertices and center focus distance of the conic

$$x^2 + 4y^2 - 2x - 8y + 1 = 0.$$

*Solution:*