İzmir University of Economics, Department of Mathematics

MATH 205 ANALYTIC GEOMETRY   **Quiz 2**   18.10.2004

Name   **Student No.**   **Sign**

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. Find the equation of parabola whose focus is the point $(2, 2)$ and directrix is $y = -x$.

   Hint: You may need the distance formula from a point to a line.

   Solution:

2. Find the vertex, focus-vertex distance and the equation of symmetry axis of the above parabola.
   Solution: