İzmir University of Economics, Department of Mathematics

Матн 205	Analytic Geometry	Quiz 5	08.11.2004
Name		Student No.	\mathbf{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. Show that the unit circle is invariant (remains unchanged) under rotation.

- 2. Find the equation of $y = x^2$ after rotating the xy-coordinate system by
 - (a) $\theta = \frac{\pi}{2}$ (b) $\theta = -\frac{\pi}{2}$.