MATH 205 ANALYTIC GEOMETRY   **Quiz 4**   21.11.2005

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. Rotate the point $P(1,2)$ by $\pi/6$ using the *rotation matrix* to find the new location of P.
   Solution:

2. Find the standard form of the conic $4xy = 1$ by a suitable *rotation of axis*.
   Solution: