# İzmir University of Economics, Department of Mathematics

*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 standard cartesian equation of the conic

$$r = \frac{4}{2 + \frac{1}{2}\cos\theta},$$

   whose pole is at a focus.
   *Solution:*