## Physics 2049 Test 2

## Spring 2003-Dr. Saul

## Problem 2 (Estimation Problem: 15 points)

For a science fair, your kid brother wants to levitate a penny between two square metal plates where each side of the square is 40 cm long. If the penny is given an excess charge of 1 nC and the plates are given equal, but opposite charges, what is the magnitude of the charge on each plate. The plates are parallel and placed 3 cm apart.


