

Physics 5300, Theoretical Mechanics Spring 2015

Quiz 3

Given: Friday Jan 30

Problem 1 Find the equation of the path joining the point $O = (0,0)$ to the point $P = (1, -1)$ in the $x-y$ plane that makes the integral $\int_O^P (y'^2 + 3yy' + y^2 + 2y)dx$ stationary.