

Math 202-112

Quiz 1

(B)

Name:.....ID#:.....Sec:.....Ser:.....

Q.1: Verify that $y = -x \cos(x) + \sin(x) \ln(\sin(x))$ is a solution of $y'' + y = \csc(x)$.

Q.2: Determine a region of the xy -plane for which the differential equation $(\sqrt{y^2 - 4}) y' = (x^2 - 4)(y^2 - 4)$ would have a unique solution containing the point (x_o, y_o) .