Quiz No: 1

Name: _____ ID____ Section____ Marks: 8 Q1. Find a function y = f(x), which satisfies $\frac{dy}{dx} = x\sqrt{x^2 + 12}$; y(-2) = 0

Q2. Verify that $y = \cosh x$ is a solution of y'' - y = 0.

Q3. The time rate of change of the velocity \underline{v} of a speeding car is proportional to the 2/3rd power of \underline{v} .

Q4. Write y'' + 2y' + y = x in its normal form.