QUIZ 2 MATH 260 NAME_____ID_____SECTION_____

Q1. Solve the first order initial value problem $(x^2+4)\dfrac{dy}{dx}+2xy=\dfrac{(x^2+4)\cos x}{\tan^{-1}(x/2)}$ satisfying $y(0)=2$.

Q2. Is the ODE $(y^3-x)\dfrac{dy}{dx}=y^2$ linear in dependent variable y ? If not write it in linear form. Do not solve the resulting equation.