## Exact Differential Equation Questions.

Q1: Solve the following differential equation.
$2 x y-9 x 2+(2 y+x 2+1) \quad d y / d x=0$

Q2: Solve the following IVP and find the interval of validity for
$2 x y-9 x^{2}+\left(2 y+x^{2}+1\right) \quad d y / d x=0, y(0)=-3$

