

Math 202-171 Quiz 1 (A)

Name _____ Section ___ Id _____

a) Solve the IVP: $\frac{dy}{dx} = \frac{2x+1}{2y}, y(-2) = -1$

b) Find a continuous solution of the IVP

$$\frac{dy}{dx} + y = f(x), \quad y(0) = 1$$

where $f(x) = \begin{cases} 1, & 0 \leq x \leq 1 \\ -1, & x > 1 \end{cases}$