

Math 202-172 Quiz 1

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