## Quiz 3 MTH 416/616 Spring 2025

Monday, March 10, 2025

11:33 AM

Find orbits of 
$$\begin{cases} x' = y - 1 \\ y' = -xy \end{cases}$$

Sum: 
$$\frac{dy}{dx} = \frac{-xy}{y-1}$$

$$\int y-1 \, dy = -\int x \, dx$$

$$\frac{y^2}{2} - y = -\frac{x^2}{2} + C$$

