

QUIZ 2 FOR CALC 4

Name: _____ RUID: _____

(1) (-8 pt if not answered) Fill in the blanks above.

(2) (4 pt) Solve the initial value problem

$$\begin{cases} (t+1)y' + ty = e^{-t} \\ y(0) = 1 \end{cases}$$

(3) (4 pt) Give the general solution of the differential equation

$$xy' = 9 - y^2.$$