

Name [1 Pt]: _____ Quiz Score: _____ / (4+1)

Answer all questions. Show all work, and carefully explain your reasoning.

1. Find the general solution of the ODE

$$ty' + 2y = t^2.$$

Solution:

2. Find the general solution of the following ODE. Leave your answer as an implicit function of y .

$$\frac{dy}{dx} = \frac{x}{x^2y^2 + 3y^2}.$$

Solution: