

Math 232 Worksheet 10 - Differential Equations

Solve the initial value problem.

$$(1) \frac{dy}{dx} = xy^2, \quad y(0) = -2$$

$$(2) \frac{dy}{dx} = e^y, \quad y(0) = 0$$

Answer Keys:

(1) $-\frac{2}{1+x^2}$ (2) $-\ln(1-x)$