

Instructor: Tatsunari Watanabe
TA: Carlos Salinas

Name: _____

MA 265 Quiz 2

June 16, 2016

1. Determine the differential equation giving the slope of the tangent line at the point (x, y) for the given family of curves

$$xe^y = c.$$

a) $\frac{dy}{dx} = xye^{y-1}$

b) $\frac{dy}{dx} = e^y$

c) $\frac{dy}{dx} = e^y(1 - x)$

d) $\frac{dy}{dx} = -\frac{1}{x}$

e) None of the above

Answer: D