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MA 265 Quiz 2

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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)
$$\frac{\mathrm{d}y}{\mathrm{d}x} = xye^{y-1}$$

b)
$$\frac{\mathrm{d}y}{\mathrm{d}x} = e^y$$

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

$$\mathrm{d}) \ \frac{\mathrm{d}y}{\mathrm{d}x} = -\frac{1}{x}$$

e) None of the above.

Answer: D