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Given $y = e^{kx}$, where k is a constant, find $\frac{dy}{dx}$

Circle your answer.

[1 mark]

$$\frac{dy}{dx} = e^{kx}$$

$$\frac{dy}{dx} = ke^{kx}$$

$$\frac{dy}{dx} = kxe^{kx-1}$$

$$\frac{dy}{dx} = \frac{e^{kx}}{k}$$