Act 2

In region III, the wave function has the form

$$\psi_{III}(x) = D_1 e^{\kappa x} + D_2 e^{-\kappa x}$$

 As x → ∞, the wave function must vanish. (why?) What does this imply for D₁ and D₂?

a. $D_1 = 0$ **b**. $D_2 = 0$ **c**. D_1 and D_2 are both nonzero.

2. What can we say about the coefficients C₁ and C₂ for the wave function in region I? $\psi_1(x) = C_1 e^{Kx} + C_2 e^{-Kx}$

a. $C_1 = 0$ **b**. $C_2 = 0$ **c**. C_1 and C_2 are both nonzero.