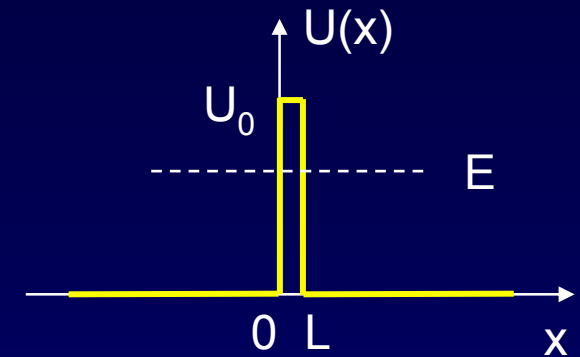


Solution

Consider a particle tunneling through a barrier.

1. Which of the following will increase the likelihood of tunneling?

- a. decrease the height of the barrier
- b. decrease the width of the barrier
- c. decrease the mass of the particle



$$T \approx e^{-2KL} \quad \text{Decreasing } U_0 \text{ or } m_e \text{ will decrease } K.$$

2. What is the energy of the emerging particles?

- a. < initial energy
- b. = initial energy
- c. > initial energy