

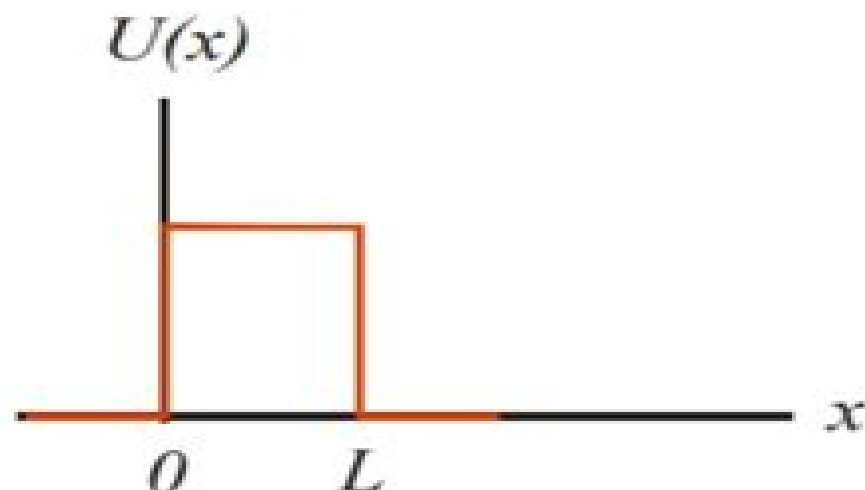
Tennis balls traveling at greater than 100 mph routinely bounce off tennis rackets. At some sufficiently high speed, however, the ball will break through the strings and keep going. Suppose that a 100 g tennis ball traveling at 200 mph is just sufficient to break the 2.0 mm thick strings. Model the racket as a potential energy barrier of width $L = 2.0$ mm whose height is the energy of the slowest string-breaking ball. If a tennis ball approaches the racket from the left at 120 mph:

- a) What is the normalized wave-function representing the tennis ball in each of the following regions?

$$x \leq 0$$

$$0 \leq x \leq L$$

$$x \geq L$$



From your solution in part a)

- b) What is the wave-function of the incident ball?
 c) What is the wave-function of the reflected ball?
 d) What is the wave-function of the transmitted ball?
 e) What fraction of incident tennis balls can be expected to travel through the strings, without breaking them?

Note: the fraction of transmitted tennis balls is found by:

$$\frac{\psi_{transmitted}^* \psi_{transmitted}}{\psi_{incident}^* \psi_{incident}}$$

Hint: Apply boundary conditions to solve for the coefficients in each of the regions, requiring that the wave-function and its derivative is continuous and finite everywhere.

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