

Boundary Behavior

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MCOP Connections:

Waves: sublevel 5

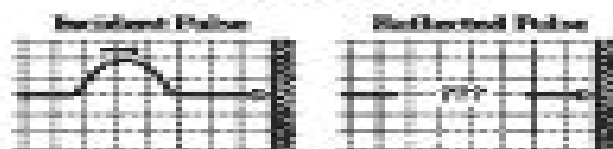
Background:

The behavior of a traveling wave (or pulse) upon reaching the end of a medium is referred to as boundary behavior. When one medium ends, another medium begins; the interface of the two media is referred to as the boundary and the behavior of a wave at that boundary is described as its boundary behavior. A pulse that is approaching a boundary is referred to as the incident pulse. Upon reaching the boundary, a portion of the incident pulse will be reflected and remain in the same medium; and a portion of the incident pulse will pass into (or be transmitted into) the other medium which lies beyond the boundary. The portion of the pulse that is reflected is referred to as the reflected pulse and the portion that passes into the other medium is referred to as the transmitted pulse. A proper understanding of the boundary behavior of waves involves an ability to answer the following questions.

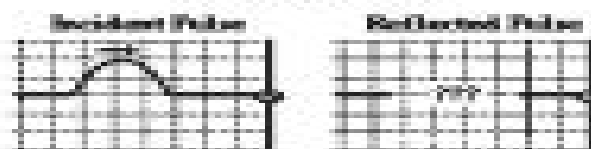
Fixed and Free End Reflections

1. State the rule that describes how a pulse will behave at a free end and a fixed end.
2. Express your understanding of reflection of waves at the end of a medium by drawing the size and orientation of the reflected pulse for the two cases below - reflection off a free end and a fixed end.

Fixed End Reflection



Free End Reflection



Reflection and Transmission of an Incident Pulse at a Boundary Between Two Media

A pulse is moving from a more-dense medium to a less-dense medium as shown in the diagram below.



3. The reflected pulse in medium 1 _____ (will, will not) be inverted because _____.
4. The speed of the transmitted pulse will be _____ (greater than, less than, the same as) the speed of the incident pulse.
5. The speed of the reflected pulse will be _____ (greater than, less than, the same as) the speed of the incident pulse.
6. The wavelength of the transmitted pulse will be _____ (greater than, less than, the same as) the wavelength of the incident pulse.

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