

## Note Taking Guide - Program 1102 - Part 2

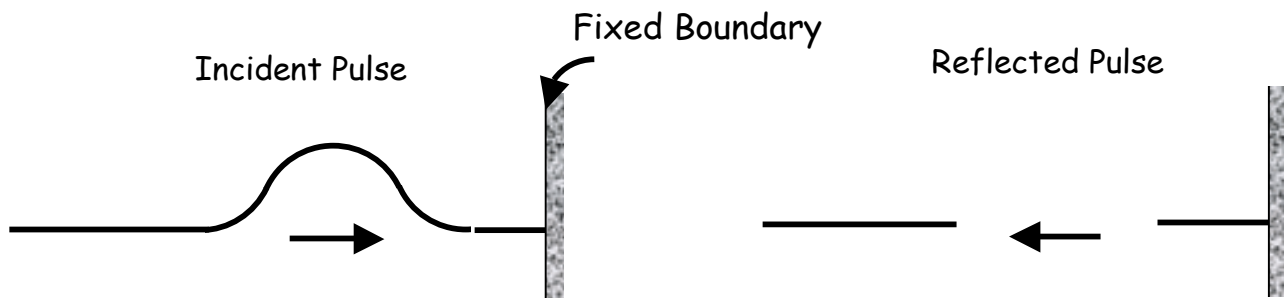
### Reflection

- 
- ex:

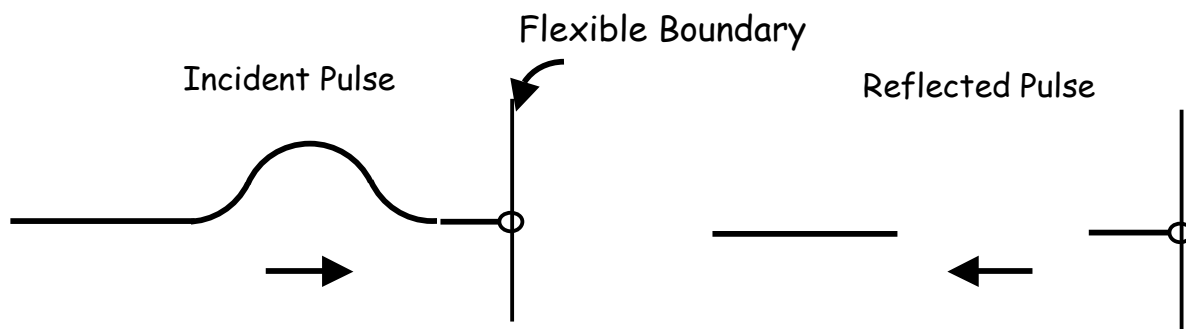
incident waves -

When a wave goes into another medium that is very similar to the old, (most, little) of the energy will be transmitted and (most, little) will be reflected.

When the new medium is very different, little will be \_\_\_\_\_ and most will be \_\_\_\_\_.



Waves reflected off a fixed boundary are \_\_\_\_\_. (Crests are reflected as \_\_\_\_\_, and troughs are reflected as \_\_\_\_\_.)



Waves reflected off a flexible boundary are \_\_\_\_\_. (Crests are reflected as \_\_\_\_\_, and troughs are reflected as \_\_\_\_\_.)

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Law of Reflection :

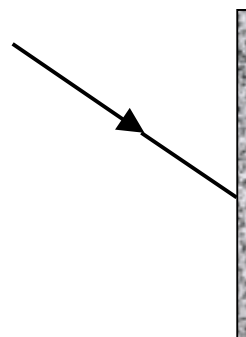
▪

▪

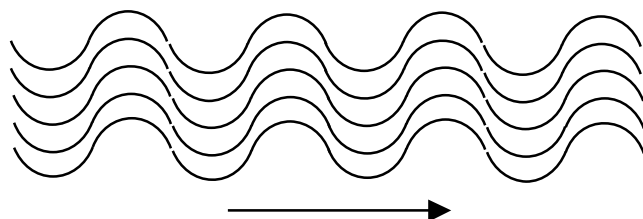
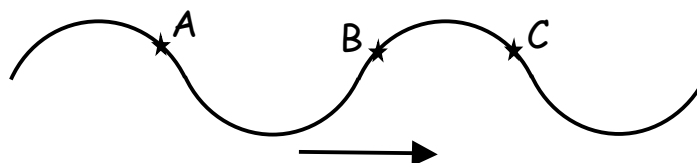
wave front -

▪

▪



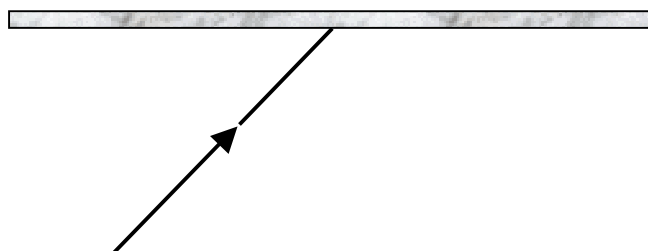
Which of these two particles are in phase?



Draw dotted lines to represent wave fronts. Label the  $\lambda$ .

Wave fronts are always \_\_\_\_\_ to the direction \_\_\_\_\_.

Draw the reflected wave, labeling angles of incidence and reflection. With dotted lines, draw incident & reflected wave fronts.



Problem Set #3: (Work on back.)