

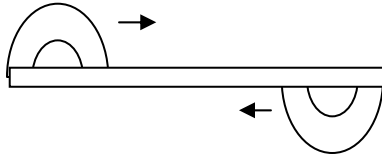
U07L02 Assignment

Take careful notes of the lesson. Be sure to examine all examples and diagrams.

- 1) Describe what would happen if a wave were travelling from air in your bedroom into the air in your hall, would most energy be reflected or transmitted? What if your door is closed?
- 2) A pulse travels through a rope to a free end will most energy be reflected or transmitted, of the reflected energy will it be erect or inverted.
- 3) Sketch 2 pulses approaching each other, which will exhibit destructive interference.
- 4) What causes node and anti-node in a standing wave?

Ans.

- 1) most energy transmitted, most reflected
- 2) reflected, erect
- 3)



- 4) Nodes are caused when reflected waves destructively interfere, anti-nodes where constructive interference happens.