

# Stationary waves & progressive waves

## Questions

1. Does the amplitude of a particle depend on its distance from the origin in a stationary wave?
2. Does the amplitude of a particle depend on its distance from the origin in a progressive wave?
3. What is the net transfer of energy in a stationary wave?
4. What is the phase difference between adjacent particles in a progressive wave ( zero or not zero )?
5. What is the phase difference between particles equidistant from a node in adjacent loops?
6. What is the phase difference between particles equidistant from an antinode within a loop?
- 7.

### **Note :**

Questions given above may be visualized and solved using the simulations. However, obtaining a mathematical solution is to be always treated as the final answer and obtaining such a mathematical solution implies a deeper understanding and application of the concept.

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