

# Principle of superposition

## Questions

1. What is the resultant of the superposition of two waves of amplitudes  $A_1$  and  $A_2$ ?
2. Can the resultant of two pulses be zero?
3. Can the resultant of two pulses be negative?
4. Can the resultant of two pulses be more than the sum of amplitudes of individual pulses?

### **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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