

# Physics 1114 - General Physics I

Quiz #17 - 2012.07.09

## Solutions

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1. If a wave travels along a string and reaches the end of the string, explain what happens if (1) the string is fixed at the end and (2) the string is free to move up and down at the end.

For the fixed end, the wave inverts and then travels back in the direction it came from. For the free end, it reflects back without inverting.

2. What is the difference between a node and an antinode?

Nodes are points on the string which undergo no transverse motion, and antinodes are locations on the string where the amplitude of transverse motion is greatest.