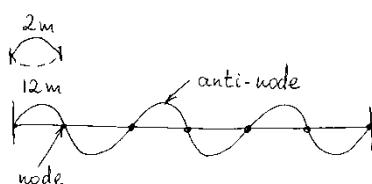


## Answer on Question #82090, Physics / Electromagnetism

### Question:

A 2m long fixed string nodes at both ends when it vibrates in its fundamental mode if the distance between this nodes is 12m.what are number of (a) nodes (b)anti-nodes?

### Solution:



The wave length equals  $\lambda = 2*2 = 4$  (m), therefore in the second case we have 3 “full waves” . The distance between nodes is  $\lambda/4$ , it means there are 7 nodes and 6 anti-nodes.

### The answer:

There are 7 nodes and 6 anti-nodes.

Answer provided by <https://www.AssignmentExpert.com>