



Tutorial-1
One dimensional wave equation

1. A tightly stretched string with fixed end points with $x = 0$ and $x = l$ apart initially displaced in a sinusoidal arc of length y_0 and then released from rest. Find the displacement y at any distance x from one end at time t .

2. A tightly stretched string of length l has its ends fastened at $x=0$ and $x=l$. The midpoint of the string is then taken to a height b and then released from rest in that position. Obtain an expression for the displacement of the string at any subsequent time.