

20 points per problem (200 points total).

(1) At each of the ends of the string, $x=0$ and $x=L$, $y=0$, both of which are fixed. The string is vibrating in its 3rd harmonic.

(2) Write specifying the solution for the wave equation. First calculate the second derivative:

$\frac{\partial^2 y}{\partial x^2} = -\cos(2\pi x/L) - \cos(4\pi x/L) - \cos(6\pi x/L) = -\cos(2\pi x/L) - \cos(4\pi x/L) - \cos(6\pi x/L)$. Plug into the wave equation: $-\cos(2\pi x/L) - \cos(4\pi x/L) - \cos(6\pi x/L) = -\frac{1}{L^2} \cos(2\pi x/L) - \frac{1}{L^2} \cos(4\pi x/L) - \frac{1}{L^2} \cos(6\pi x/L)$. Multiply by the factor and notice the two sides are the same, which is the proper wave solution.

For 1st part, $y_1(x) = \frac{1}{L^2} \cos(2\pi x/L) + \frac{1}{L^2} \cos(4\pi x/L) + \frac{1}{L^2} \cos(6\pi x/L)$. For 2nd part, $y_2(x) = \frac{1}{L^2} \cos(2\pi x/L) + \frac{1}{L^2} \cos(4\pi x/L) + \frac{1}{L^2} \cos(6\pi x/L)$.

$y_1(x) = \frac{1}{L^2} \cos(2\pi x/L)$. For 1st part, the phase velocity is $v = \frac{\omega}{k} = \frac{2\pi f}{2\pi/L} = \frac{2\pi f L}{2\pi} = fL$.

$y_2(x) = \frac{1}{L^2} \cos(4\pi x/L) + \frac{1}{L^2} \cos(6\pi x/L)$. Thus, the phase velocity is $v = \frac{\omega}{k} = \frac{2\pi f}{2\pi/L} = fL$.

(3) At 1/3 point, there are a total of 3 nodes — one at each end and one in the middle.

For the middle, we can write $x = L/2$. The distance between the two

nodes is $\frac{L}{2}$. For 1st part, $\lambda = \frac{L}{2}$. For 2nd part, $\lambda = \frac{L}{2}$.

For 3rd part, $\lambda = \frac{L}{2}$. For 4th part, $\lambda = \frac{L}{2}$.

For 5th part, $\lambda = \frac{L}{2}$. For 6th part, $\lambda = \frac{L}{2}$.

For 7th part, $\lambda = \frac{L}{2}$. For 8th part, $\lambda = \frac{L}{2}$. For 9th part, $\lambda = \frac{L}{2}$. For 10th part, $\lambda = \frac{L}{2}$.

(4) At 1/3 point, the maximum velocity of a point on the string is $v = \frac{\omega}{k} = \frac{2\pi f}{2\pi/L} = fL$.

For 1st part, the maximum velocity is $v = \frac{\omega}{k} = \frac{2\pi f}{2\pi/L} = fL$. For 2nd part, the maximum velocity is $v = \frac{\omega}{k} = \frac{2\pi f}{2\pi/L} = fL$.

For 3rd part, the maximum velocity is $v = \frac{\omega}{k} = \frac{2\pi f}{2\pi/L} = fL$. For 4th part, the maximum velocity is $v = \frac{\omega}{k} = \frac{2\pi f}{2\pi/L} = fL$.

For 5th part, the maximum velocity is $v = \frac{\omega}{k} = \frac{2\pi f}{2\pi/L} = fL$. For 6th part, the maximum velocity is $v = \frac{\omega}{k} = \frac{2\pi f}{2\pi/L} = fL$.

For 7th part, the maximum velocity is $v = \frac{\omega}{k} = \frac{2\pi f}{2\pi/L} = fL$. For 8th part, the maximum velocity is $v = \frac{\omega}{k} = \frac{2\pi f}{2\pi/L} = fL$.

For 9th part, the maximum velocity is $v = \frac{\omega}{k} = \frac{2\pi f}{2\pi/L} = fL$. For 10th part, the maximum velocity is $v = \frac{\omega}{k} = \frac{2\pi f}{2\pi/L} = fL$.

For 11th part, the maximum velocity is $v = \frac{\omega}{k} = \frac{2\pi f}{2\pi/L} = fL$. For 12th part, the maximum velocity is $v = \frac{\omega}{k} = \frac{2\pi f}{2\pi/L} = fL$.

For 13th part, the maximum velocity is $v = \frac{\omega}{k} = \frac{2\pi f}{2\pi/L} = fL$. For 14th part, the maximum velocity is $v = \frac{\omega}{k} = \frac{2\pi f}{2\pi/L} = fL$.

For 15th part, the maximum velocity is $v = \frac{\omega}{k} = \frac{2\pi f}{2\pi/L} = fL$. For 16th part, the maximum velocity is $v = \frac{\omega}{k} = \frac{2\pi f}{2\pi/L} = fL$.

For 17th part, the maximum velocity is $v = \frac{\omega}{k} = \frac{2\pi f}{2\pi/L} = fL$. For 18th part, the maximum velocity is $v = \frac{\omega}{k} = \frac{2\pi f}{2\pi/L} = fL$.



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