

Thinking Time

Physics 101: Lecture 10

Physics 101: Lecture 10: Light: Speed of Light

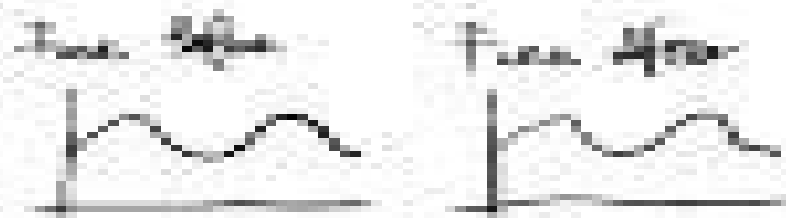
Wave Reflection

- Remember to always distinguish between the difference in a wave going in through the spring and going out through a reflecting wall situation.

When it's the free end, the wave itself cannot flip, but

for fixed end it can.

- Draw the reflection through, making sure you have a continuous string drawn. Pay attention to how the reflection about a fixed end is different from a free end. (You can think of the continuous string as being just joined).



Calculating the Speed

- Find what you know about the physical situation (is string is stretched the other direction from that, are you given

$$v = \sqrt{\frac{F}{\mu}} = \sqrt{\frac{F}{\frac{m}{L}}} = \sqrt{\frac{FL}{m}} \quad T = \frac{m}{L} \quad T_{\text{un}} = 0.705$$

$$v = \sqrt{\frac{F}{\mu}} \quad v = \sqrt{\frac{F}{\mu}} \quad T = \left(\frac{L}{v} \right)^2 \quad T_{\text{un}} = 0.416$$

- Now that you know what you know, you can calculate the speed of the wave. (You can also calculate the speed of the wave by using the formula $v = \frac{\omega}{k}$.)

I would think that it is mostly speed, since the only changing thing is the length, not any of frequency, which is all fixed.

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