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The general solution of it is Equation (5.4), namely.

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$y=f(x-vt)+g(x+vt)$ . (5.4) The wave equation (5.23) and its general solution apply to all waves that travel in one dimension. For example, they describe sound waves in a long tube where the relevant physical parameter is the local air pressure  $P(x,t)$ .

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- Newton rejected the wave theory for good reason, but assumed the waves would be longitudinal like sound.
- A century later it was postulated that light could be a transverse wave.
- Based on the wave theory, Poisson, Arago and Fresnel predicted that there should be a bright spot at the center of a circular shadow.

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A vibration in a string is a wave. Resonance causes a vibrating string to produce a sound with constant frequency, i.e. constant pitch.If the length or tension of the string is correctly adjusted,

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the sound produced is a musical tone. Vibrating strings are the basis of string instruments such as guitars, cellos, and pianos

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