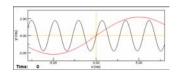
Worksheet for Exploration 17.2: Measure the Properties of a Wave



Shown in black is a traveling wave (position is given in centimeters and time is given in seconds). Measure the relevant properties of this wave and determine the wave function of the wave. Once you are finished, check your answer by importing a f(x, t) and look at the red wave to see if it matches.

i. The equation for the wave may be written in several ways that are equivalent. One way is: $f(x,t) = A \sin[\frac{2\pi}{\lambda}x - \frac{2\pi}{T}t + \phi_o].$ The velocity of the wave is $\frac{\lambda}{T}$. For the given wave determine:

A=	λ=	T=
v=	f=	

ii. What is the effect of changing the initial phase of your "check" function?