Task #1

The radio station WZPL broadcasts at a frequency of 99.5 MHz. Radio waves travel at a speed of 3.00×10^8 m/s. (*Hint:* 1 MHz = 10^6 Hz)

(a) How long is the wavelength of WZPL's radio waves?

(b) What is the period of these waves?

Task #2

A certain string has a length of 3.2 meters. Its fourth harmonic occurs at 112 Hz.

(a) What is the wavelength?

(b) How far apart are the nodes?

(c) What is the fundamental frequency of the string?

(d) What is the wave speed through the string?