Physics 212 Quiz 1 Dr. Kotowich

Directions: Complete the problem below and provide all work and units. If work or units are missing the problem is incorrect. Good luck.

The transverse displacement from equilibrium of a particular stretched string as a function of position and time is given by . The linear mass density of the string is 0.00677 kg/m. Find the following:

1. The wavelength of the string
2. The period of the string
3. The average power transmitted by the string
4. The kinetic energy of the string given by the formula