**Physics of Sound Quiz**

1. **Label the transverse wave and the longitudinal wave.**



1. **Draw a transverse wave with axes of displacement and time.**
	1. **Label the amplitude.**
	2. **Label the period.**
2. **Calculate the speed of a wave with amplitude of 2 meters, frequency of 200 Hz,
and wavelength of 4 meters.**
3. **What is the difference between sound and noise?**
4. **How does sound move through different media?**
5. **Speakers, 1 meter away, produce a sound intensity of 0.01 W/m2.
Calculate the sound intensity level of the speakers.**

$$I\_{0}=10^{-12}\frac{watts}{m^{2}} β\left(dB\right)=10log⁡\left(\frac{I}{I\_{0}}\right)$$