Homework 21

1. Speed of sound in water 1450m/s . What is the distance between two closest pints oscillating in the opposite phases (the phase difference is π) if the oscillation frequency is equal to 725Hz?

2. What is the train velocity v at which the 44 cm long pendulum starts oscillating at high amplitude if the distance between the rail connections is 25m?

3. The speed of the waves is 360m/s at the frequency of 450Hz. What is the difference of oscillation phases between two points separated by 20cm?