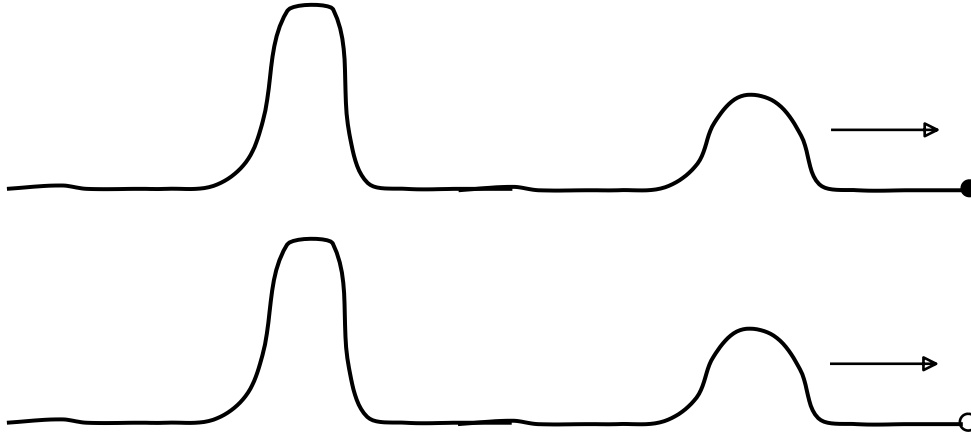


SPH3UI DL W10 – Practice Problems - Waves & Sound

1. Two wave pulses as shown below are incident on a fixed end and an open end. The first wave pulse will reflect back to the left and will interfere with the incoming wave pulse. Draw the resultant interference of the two wave pulses when they are perfectly aligned.



2. A large crest of water requires 12 seconds to travel from a fishing boat to the pier which is 48m away. While sitting on the boat, the fishermen notice that 5 crests pass the boat in 10 seconds. What is the wavelength of the waves?

3. On a cold day at the Grand Canyon, a hiker yells and can hear her echo 5.0 seconds after she yells. If the distance to the far canyon wall is 815m, what is the temperature?