Exercise 1

10.67 kHz

Exercise 2

Channels ones waveforms seem to be taller in height compared to channel twos waveform.

F = 2300 Hz

.002653

1k ohms

F = 4791 Hz

.00530

Equations almost confirms the values but are off by a bit.

Exercise 3

F = 4610 Hz

When frequency decreases the altitude of channel 2 also decreases.

HPF and LPF are almost the same with slight variations. LPF is slightly larger in frequency.