Lab 6: 7 October 2019

PHASE OF WAVES:
Sketch two waves that are out of phase by:
a) 90 degrees, b) 180 degrees, c) 270 degrees,

ADDING WAVES:
When you add two waves that are out of phase by:
a) 90 degrees, b) 180 degrees, c) 270 degrees, and describe what you get.

ANIMATION #1:
Explain what this demonstrates.
What happens if you make the amplitude of one of the waves 1.3 instead of 1.0??? Describe.

ANIMATION #2:
Explain what this demonstrates.
Explain what the controls do.

ANIMATION #3:
Explain what this demonstrates.
Explain what the controls do.

PLOT #1:
Make a saw-tooth wave

PLOT #2:
Make a square wave

PLOT #3:
Make a saw-tooth wave to match the figure. (Yes, it is possible)
Explain how you did it.

PLOT BEATS:
When you add two waves of frequency f1=440 Hz and f2=444 Hz,
describe what you get.

HEAR BEATS:
When you add two waves of frequency f1=440 Hz and f2=444 Hz,
describe what you get.

SYNTHETIC INSTRUMENT #1:
Describe the characteristics of this instrument. What is is similar to???

SYNTHETIC INSTRUMENT #2:
Describe the characteristics of this instrument. What is is similar to???