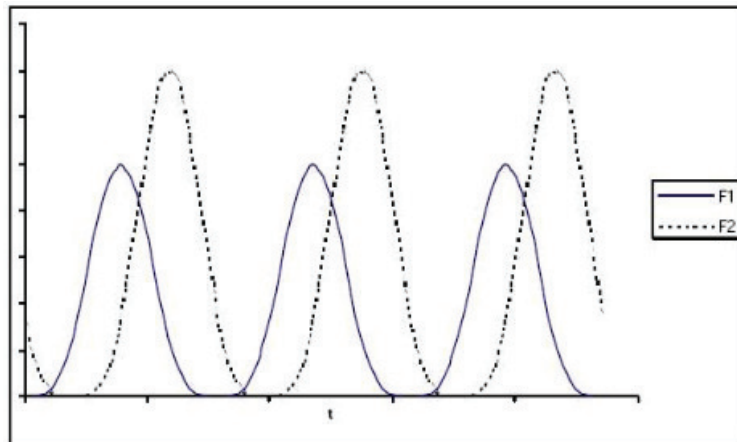


P4.W – Measurements with the Oscilloscope

1. What are the three shapes of periodic signals that our function generator can produce?
2. We will be using an oscilloscope to look at generated wave functions in lab. What does the oscilloscope measure on the y-axis of the digital display? On the x-axis? Can the oscilloscope display anything but periodic functions?
3. Label the following on the drawing:
 - (a) Δt , the phase difference between $F1$ and $F2$.
 - (b) A_{pp} , the peak to peak amplitude of $F1$.
 - (c) T , the period of $F2$.



4. What components are in a phase shifter circuit? If a periodic signal is the input of a phase shifter circuit, how will the output signal be different from the input? What is the equation which relates the angular phase difference to the time shift of the output?