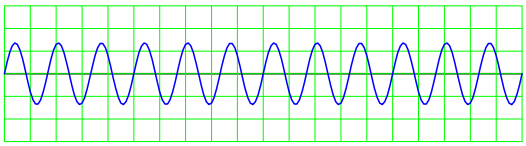
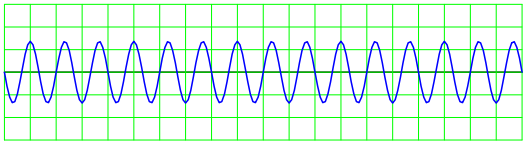
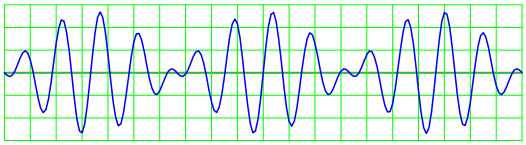
Adding two sine waves: $f_1 = 1000\,\mathrm{H}z$, $f_2 = 1250\,\mathrm{H}z$.
Note: These can be thought of as 4th and 5th harmonics of 250 Hz.



$$y = 1.0\ \sin(360\ \times\ 1000\,t\ +\ 0)$$
$$1000\ \mathrm{Hz} \Longrightarrow 12\ \text{cycles in 12 milliseconds.}$$



$$y = 1.00\ \sin(360\ \times\ 1250\,t\ +\ 180)$$
$$1250\ \mathrm{Hz} \Longrightarrow 15\ \text{cycles in 12 milliseconds.}$$



$$y = 1.0\ \sin(360\ \times\ 1000\,t\ +\ 0)\ +\ 1.0\ \sin(360\ \times\ 1250\,t\ +\ 180)$$
$$250\ \mathrm{Hz} \Longrightarrow 3\ \text{cycles in 12 milliseconds.}$$