



Lab 1 – Agilent VEE Basics

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Objective

- Learn the function of the following objects in Agilent VEE:
 - Formula
 - Integer and Real Constant
 - Integer and Real Slider
 - Alphanumeric Display
 - Logging Alphanumeric Display
 - Strip Chart Recorder
 - Count for Range
 - Start Button
- Learn to perform the following tasks in Agilent VEE
 - Connect data threads between objects
 - Connect sequence threads between objects
 - Change the title bar of an object
 - Add data inputs to an object
 - Autoscale a display
 - Set a slider to Auto Execute

Equipment

- Agilent VEE software package

Experiment

Create a graphical program that computes the following formula:

$$y(x) = a_1 \sin x + a_3 \sin 3x + a_5 \sin 5x + a_7 \sin 7x$$

Display y over the range $0 < x < 360$ for various values of $a_1 \dots a_7$. Your program should include a method for setting these constants and observing the resulting function $y(x)$. For what values of the four constants $a_1 \dots a_7$ does $y(x)$ look most like the following square function?

