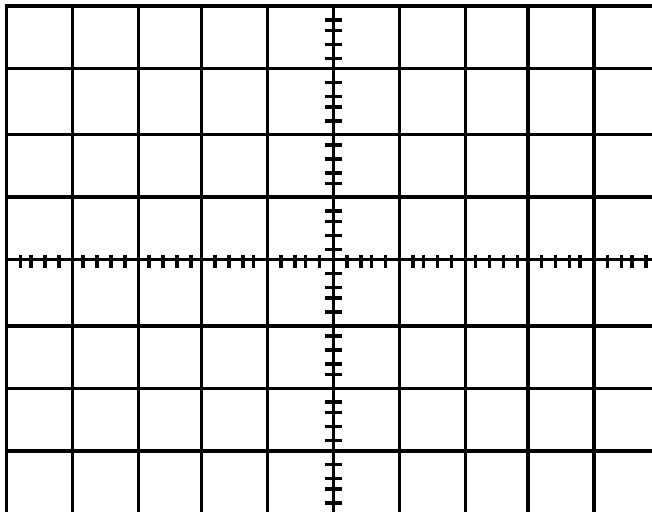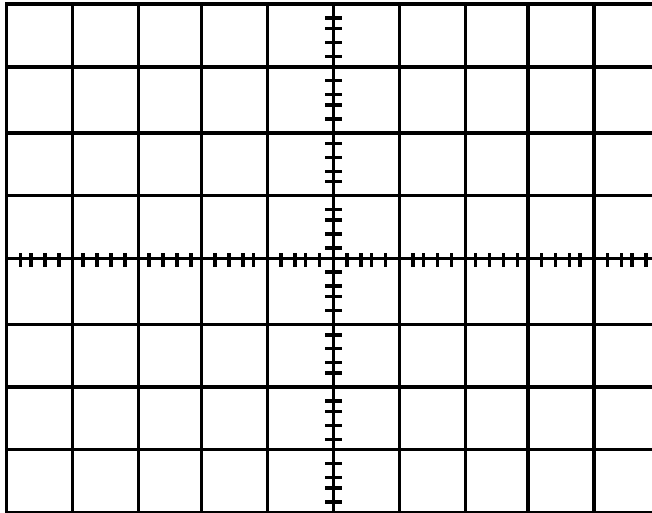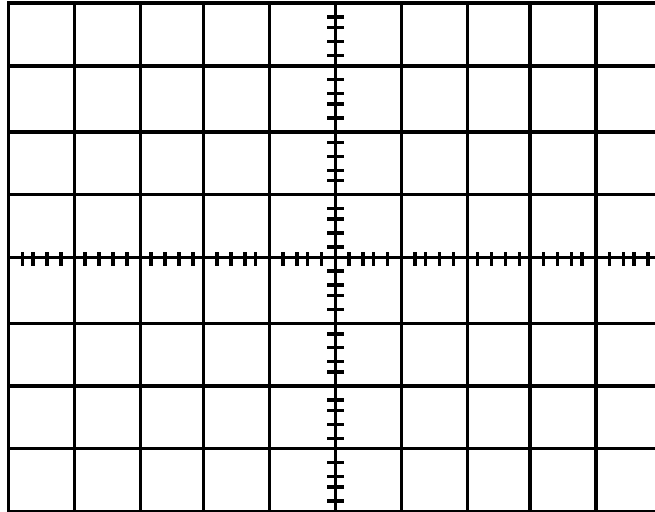Name: _____

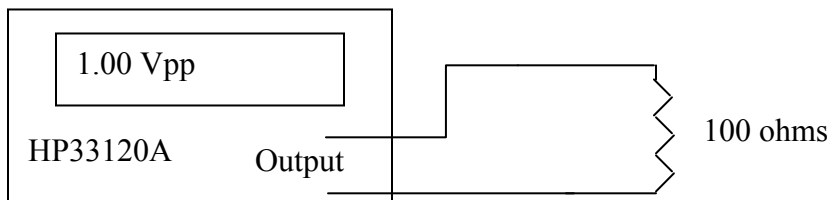TA: _____ Section: _____

EECS 100
Oscilloscope Pre-Lab

1. Plot the following voltage signals on the grids below. **PLEASE USE THE SCALE SHOWN – V is 0.5 volts/box (vert) and t is 1millisecond/box (horiz)**.

(a) V1(t) = sin (2 π 1000 t)

(b) V2(t) = sin (2 π 500 t + π/4)

(c) V3(t) = sin (2 π 500 t + π/4) – 0.5

2. What is the V_{pp} across the 100 Ω in the diagram below?

1.00 Vpp

HP33120A   Output

100 ohms

3. Describe what the oscilloscope does after graphing the voltage over a single time interval, for the following three triggering modes:
Normal:

Auto:

Single: