## EECS 40/43

Pre-Lab Oscilloscope

## (Note: You must show your work to receive full credit.)

Name: $\qquad$
TA: $\qquad$

1. Plot the following voltage signals $[15 \mathrm{pts}]$ :

(b) $\quad \mathrm{V}_{2}(\mathrm{t})=\sin (2 \pi 500 \mathrm{t}+\pi / 4)$

(c) $\quad \mathrm{V}_{3}(\mathrm{t})=2 * \sin (2 \pi 500 \mathrm{t}+\pi / 4)-0.5$

2. The oscilloscope graphs the value of the input signal (in Volts) vs. time for a specified time interval. a) What determines the duration (in seconds) of this time interval? [10 pts]
b) What determines the starting point of this time interval? [10 pts]
3. Describe what the oscilloscope does after graphing the voltage over a single time interval, for the following three triggering modes:

Normal [5 pts]:

Auto [5 pts]:

Single [5 pts]:

