

## Physics 281

### EXPERIMENT 6 Oscilloscope

Data Page      Student \_\_\_\_\_

Instructions: Print 2 copies of this page to use in class

#### **Procedure #4**

Record the DC voltage as read from the screen.

Now switch the polarity of the input voltage. What happens to the sweep line?

Switch the "Input" from "DC" to "AC". What happens to the sweep line? Why?

**Procedure #6** Measure the period and the amplitude of the sine wave. Record the numbers.

**Procedure #7.** Now change the sensitivity of the y axis and measure the amplitude again. Do you get the same voltage? Which scale setting gives you the best measurement ?

**Procedure #8.** Change the time base to the adjacent settings. You may need to readjust the triggering to stabilize the waveform. What happens to the waveform ? Measure the period again. Do you get the same value for the period ?

**Procedure #9.** Now switch the waveform from sinusoidal to square wave. There is a switch on the waveform generator for choosing the waveforms. Measure the pulse height, the period and the pulse width of the squarewave. Record the data.

**Procedure #10.** Repeat step 9 with a sawtooth waveform.