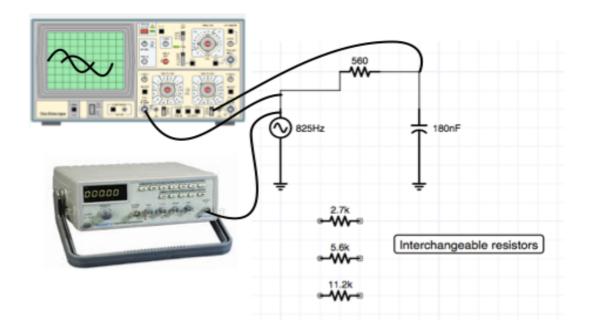
Phase relationship Lab AC

Construct the following circuit with Signal Generator and Function Generator. You will be taking measurements of phase difference based on the value of R in an RC series circuit.

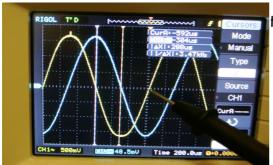


Note, there are 4 resistor values to work with. The 11.2k is two 5.6k in series.

Adjust the oscilloscope to give the same height with both of your inputs. That is, Vapplied and Vc.

Use the time difference as measured with the cursors on the oscilloscope.

$$\mathrm{PD}\!=\!(rac{t}{T})_{\!\scriptscriptstyle\mathsf{X\,360}}$$



Here is an example of the screen view you will have for the measurements.

	Vc	time shift µS	Phase shift degree
560Ω			
2700Ω			
5600Ω			
11200Ω			