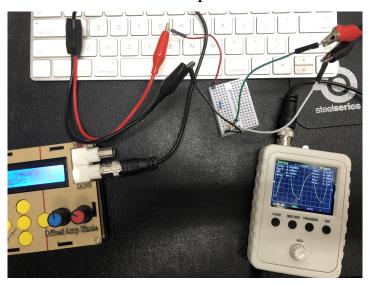
Lab 9: RC Discharge

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Table 1: Discharge											
R	C	f(Hz)	$V_{min}(V)$	$t_{srn}(DIV)$	SEC/DIV	$t_{srn}(s)$	$V_{srn}(DIV)$	V/DIV	V_{srn}	$V_{dischg}(V)$	
100Ω	$0.22\mu F$	$4.024 \mathrm{kHz}$	0.03	±2.3	50us	8.33	±3	0.2V	1.21	1.1767	
100Ω	$0.22\mu F$	$4.024 \mathrm{kHz}$	0.03		50us		±3	0.2V			
100Ω	$0.22\mu F$	$4.024 \mathrm{kHz}$	0.03		50us		±3	0.2V			
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150Ω	$0.22\mu F$				50us			0.2V			
150Ω	$0.22\mu F$				50us			0.2V			
150Ω	$0.22\mu F$				50us			0.2V			
150Ω	$0.22\mu F$				50us			0.2V			
150Ω	$0.22\mu F$				50us			0.2V			
270Ω	$0.22\mu F$				50us			0.2V			
270Ω	$0.22\mu F$				50us			0.2V			
270Ω	$0.22\mu F$				50us			0.2V			
270Ω	$0.22\mu F$				50us			0.2V			
270Ω	$0.22\mu F$				50us			0.2V			
47Ω	$0.22\mu F$				50us			0.2V			
47Ω	$0.22\mu F$				50us			0.2V			
47Ω	$0.22\mu F$				50us			0.2V			
47Ω	$0.22\mu F$				50us			0.2V			
47Ω	$0.22\mu F$				50us			0.2V			

Setup



Graph 1

graph 1

Graph 2

graph 2

• What is the value of the slope in the second graph and how does that compare to what you expected?