

PHYS222
Results
RC Time Constant Experiment

Part 1 Results
680 K ohm Resistor and 47 μ F capacitor

Method	RC time (τ) (sec)	% diff (w.r.t. ideal Voltmeter)	2xRCtime(2τ) (sec)	% diff (w.r.t. ideal Voltmeter)
Color code (0.680M Ω x 47 μ F)				
R_{DMM} times C_{DMM} (ideal voltmeter)		XXXXXXXXXX		XXXXXXXXXX
R_{eq} times C_{DMM} (real voltmeter)				
Cartesian plot				
Semi-log plot				XXXXXXXXXX

Part 2 Results

1.80 M ohm Resistor and 47 μ F capacitor

Method	RC time(τ) (sec)	% diff (w.r.t. ideal Voltmeter)	2xRCtime(2τ) (sec)	% diff (w.r.t. ideal Voltmeter)
Color code (1.80 M Ω x 47 μ F)				
R_{DMM} times C_{DMM} (ideal voltmeter)		XXXXXXXXXX		XXXXXXXXXX
R_{eq} times C_{DMM} (real voltmeter)				
Cartesian plot				
Semi-log plot				XXXXXXXXXX