Aidan Chin					
29-Nov	compute i(t), v(t), p(t), and the final energy stored in the inductor (after a very, very long time)				
ECE 202					
t initial (milliseconds)	t final (milliseconds)	V_0 (volts	R (Ohms)	L (Millihenries)	
0	50	5	2	10	
t step	tau				
0.125	5				
		voltage across inductor	power absorbed by inductor	total energy stored in inductor after inf time	final energy stored in inductor
t (ms)	e(-t/tau)	i(t) (amps)	v(t) (volts)	p(t) (watts)	P Final (watts)
0	1	0	5	0	31.25
0.125	0.975309912	0.06172522	4.87654956	0.301006094	i(t) when t = inf (amps)
0.25	0.951229425	0.121926439	4.756147123	0.579900081	2.5
0.375	0.927743486	0.180641284	4.638717432	0.837943874	measured P Final (watts)
0.5	0.904837418	0.237906455	4.52418709	1.076333312	31.24394292
0.625	0.882496903	0.293757744	4.412484513	1.296201494	Percent Error check of P Final
0.75	0.860707976	0.348230059	4.303539882	1.498621947	1.94%
0.875	0.839457021	0.401357448	4.197285104	1.684611638	
1	0.818730753	0.453173117	4.093653765	1.855133838	
1.125	0.798516219	0.503709453	3.992581094	2.011100839	
1.25	0.778800783	0.552998042	3.894003915	2.153376542	
1.375	0.759572123	0.601069692	3.797860616	2.282778911	
1.5	0.740818221	0.647954448	3.704091103	2.400082307	