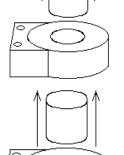
	Name	
Part 1. Coil's outside diameter:	Inside diameter:	average:
Coil's length: L=	N = 570 turns	$r_{av} = \underline{\hspace{1cm}}$
$t_i=0 \hspace{1cm} t_i=0 \hspace{1cm} t_f=\underline{\hspace{1cm}}$	$_{ m I_f} =$	
Measured V = Calculations:		

<u>Part 2:</u> A) A coil is connected to a galvanometer. A magnet is placed against the coil, stationary. Once the effects of putting it there pass, how far is the needle from zero?



Starting against the coil, then moving the magnet away very slowly, along the coil's axis, how far does the needle go from zero?



Starting against the coil, then moving the magnet away very quickly, along the coil's axis, how far does the needle go from zero?

(In each blank put "FLUX", "FIELD STRENGTH", or "RATE THE FLUX CHANGES":) This last

result shows that the induc	ed emf depends on the		
	, not	0	r
	because		and
	depend only on l	now far away the magne	et is, but
	depends on how	fast it's moving.	
Part 3. A transformer made supply. A galvanometer is DC in the primary, the galvanometer is the primary of the primary.	connected to the second	<u> </u>	
The power supply is turned	d off and on, like the pri	mary current in a car's i	gnition coil. I observe
The transformer is now co.	nnected to an AC power	supply and AC meters.	This time, I observe
Part 4. A coil between the coil (does/ does/ doe	oes not) show an induction to happen, but B fro	ced current. Faraday's	law says there must be a
The same device is now co $V = \underline{\hspace{1cm}}$ The power taken in by the			DC motor. While running,
The energy it uses in one n	ninute is		