	Part3:	
ALT YES	ASSUME I = 150 A M= 1kg r= 1M	
N. WY	Formula for Torque: T=KI where Kis	- OBA
1	the coeffecient of the Proportionality between	VIII
	Torque and Corrent and I is current	100
· · · · · · · · · · · · · · · · · · ·	Howing through the motor.	
	Another Formula for Jorque is: T=dof	
	where dis the distance to the center Cradius)	
14. 14.	and F is the force. In this case or mass	
	is hanging so the force APPILED is gravity	
	Fo= mos where gis 4.81 M/SZ	
Yo r	To solve for K we must first find T:	
	T=1.M.g = 001M. Dolkg. 9.81 M/sZ	
	T=98.1 Mili Newton-Meters	
	Then substitute this value along with.	
4	Current to Solve for K K=T/I K= 0.0981 Newton-meters	
	K=T/I K= 0.0981 Newton-meters	
7	0,150 A	
	10.654 NM/A	