EE 475 Fall 2010 Quiz #5

Name:		

1. Consider the electric circuit given below.



2. Consider a DC motor as we discussed in class.



- a. Write the equation relating the terminal voltage across and current through the field coil:
- b. Write the equation relating the back emf voltage, the terminal voltage across the armature coil and the current through the armature coil: _____
- c. For the armature controlled motor, the motor generated torque is given by the expression $T_m =$ _____.
- d. For the armature controlled motor, the motor generated torque is given by the expression $T_m =$ _____.