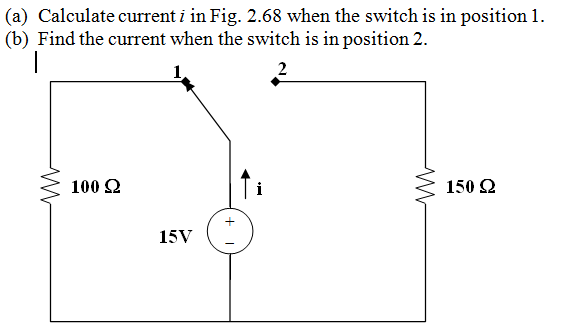
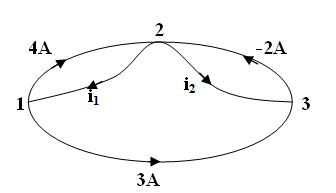
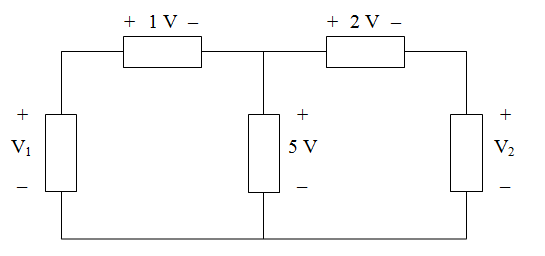
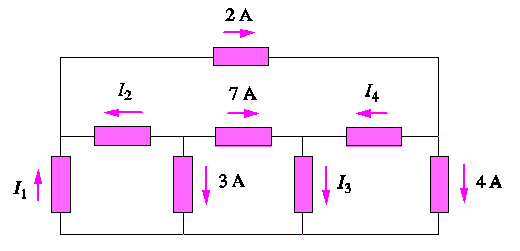
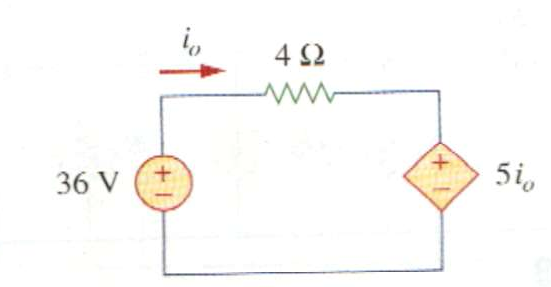
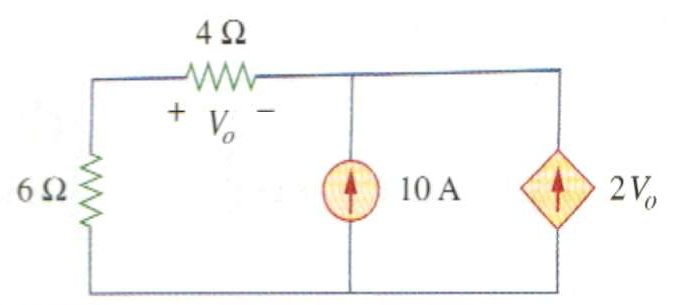
ENGR 12 Assignment 2 Due: next wed

**Part I. Drills -- 1 point each**

* 1. Use Ohm’s Law: 2.10) Find i1 and i2 using KCL  
      
  2. Find v1 and v2 using KVL 2.15 Find i1 thru i4  
      

2.20 Determine i0 2.22 Find Vo in the Circuit

**Part II. Assisted Problem Solving – 2 pts each**

|  |  |
| --- | --- |
| 7 Find the value of R2 in the circuit below  [http://img214.imageshack.us/img214/6396/circuithh3.jpg](http://imageshack.us/) | PLAN   1. Use OL to find the voltage across the 1 ohm resistor 2. Now use KVL around the left loop to find V1, the voltage across the 8 ohm resistor. 3. Use this voltage to determine the value of i1 4. Use KVL around the right loop to find V2, the voltage across the R2 resistor 5. Use KCL at the top center node to determine the value of i2. 6. Knowing i2 and V2, use OL to find the value of R2. |
| 2.15 Calculate v and ix in the circuit | PLAN   1. v can be found readily using KVL 2. also use KVL to find the voltage of the dependent source. 3. Solve for ix |

**Part III. Unassisted Problem Solving – 3 points**

8) Find the current io in the circuit below  
