**Note: All answer must be in engineering notation rounded off to the hundredth**

1. **Find the total resistance for each configuration parallel circuit (a = 5 pts, b = 6 pts)**

**2. For the parallel circuit**

**a. Find the current through each branch (6 pts)**

**b. Find the total resistance (6 pts)**

**c. Calculate current source IS using the result of part (b) (3 pts)**

**d. Find the source current using the result of part (a) (3 pts)**

**3. Given the information provided**

1. **The resistance R2 (5 pts)**
2. **The supply voltage E (4 pts)**

 **4. Given the following parallel circuit, find the unknown quantities, E, R1 and I3 (4 points each)**

**5. For the following parallel circuit**

**a. Find the total resistance and the current through each branch (6 pts)**

**b. Find the power delivered to each resistor (6 pts)**

**c. Calculate the power delivered by the source (3 pts**)

1. 

**6. Find the unknown quantities for the following parallel circuit, IR1, Ix, IR3, R (4 points each)**

**7. Find the unknown quantities for the following parallel circuit, IR1, IR3, R2, R3, PR2, and E (4 points each)**