Chapter 5 Problem III (+1) Name _____

27. Describe how the periodic table was developed.

28. What criteria did Mendeleev use to construct his periodic table of the elements?

29. Relate group, period, and transition metals to the periodic table.

30. Identify each element as a metal, metalloid, or nonmetal.
    a) Gold
    b) Silicon
    c) Manganese
    d) Sulfur
    e) Barium

31. Which of the elements listed in the preceding question are representative elements?

32. Name two elements that have properties similar to those of the element calcium

43. Complete this table.

Atomic #	Mass #	Protons	Neutrons	Electrons	Symbol
9			10		
		14	15		
	47		25		
	55	25			

47. Look up the word periodic in the dictionary. Propose a reason for the naming of the periodic table.

48. Give the symbol of each element.
    a) any nonmetal in Group 4A: _____
    b) the inner transition metal with the lowest atomic number: _____
    c) all of the nonmetals for which the atomic number is a multiple of five: _____ _____
    d) the two elements that are liquid at room temperature: _____
    e) any metal in Group 5A: _____