**Ch. 2 Ions/Isotopes Practice**

1.Fill in the missing information:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Symbol | Z | A | protons | electrons | neutrons |
| S | 16 |  |  | 16 | 18 |
|  |  | 186 | 74 |  |  |
| Ni |  |  |  |  | 35 |
|  | 78 |  | 78 |  | 117 |

2. Determine the number of electrons and protons in the following ions:

a. Fe3+ p = \_\_\_\_\_\_\_\_ e- = \_\_\_\_\_\_\_\_

b. Se2- p = \_\_\_\_\_\_\_\_ e- = \_\_\_\_\_\_\_\_

3. name an element from the groups:

a. Noble gas \_\_\_\_\_\_\_\_\_\_

b. Alkali metal \_\_\_\_\_\_\_\_\_

c. Transition metal \_\_\_\_\_\_\_\_\_

d. Halogen \_\_\_\_\_\_\_\_\_\_

e. Alkaline earth metal \_\_\_\_\_\_\_\_

f. metalloid