Lewis Model and Bonding

Exercise1:

Draw the Lewis model (electron dot diagram) for each of the following elements.

Н	Не	Li	Be	В	C	N	Ο	F	Ne	Na	Mg	Al
Si	P	S	Cl	Ar	K	Ca	Ga	Ge	As	Se	Br	Kr
Rh	Sr	Sh	Te	Ţ	Xe	Cs	Ba	Ri				

Exercise 2: Ionic Bonding

On a separate sheet of paper, use Lewis model to show the bonding that takes place between the atoms in each of the following pairs of elements.

a. Li and F b. Mg and O

On a separate sheet of paper, use Lewis model to show the bonding that takes place between the atoms in each of the following pairs of elements.

1. Ba and Se 2. Rb and As 3. Na and Cl 4. Al and O

5. Be and I 6. Ga and Cl 7. K and P 8. Cs and N

Exercise 3: Covalent Bonding

On a separate sheet of paper, use Lewis model to show the bonding with each of the following compounds.

a. HCl f. IBr k. Cl_2O

b. H₂O g. I₂ l. C₂H₆

c. NH_3 h. N_2 m. CH_4

d. O₂ i. C₂H₄ n. PF₃

e. CH₃OH j. SCl₂ o. P₂S₃