**Periodic Table, Shapes of Molecules and Bonding:**

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**Electronegativity and Types of Bonds: Quiz 7c**

Answer the following:

1. How does a polar bond differ from a covalent bond?
2. Complete the table below:

|  |  |  |  |
| --- | --- | --- | --- |
| **Atom 1** | **Atom 2** | **Electronegativity Difference (∆EN)** | **Bond Type** Nonpolar Covalent (NPC), Polar Covalent (PC), or Ionic (I)) |
| Calcium | Sulfur |  |  |
| Iron | Carbon |  |  |
| Francium | Fluorine |  |  |
| Hydrogen | Xe |  |  |

Answers:

1. How does a polar bond differ from a covalent bond?

Covalent bonds are shared equally (or ALMOST equally), polar bonds are shared unequally but not considered transferred.

1. Complete the table below:

|  |  |  |  |
| --- | --- | --- | --- |
| **Atom 1** | **Atom 2** | **Electronegativity Difference (∆EN)** | **Bond Type** Nonpolar Covalent (NPC), Polar Covalent (PC), or Ionic (I)) |
| Calcium | Sulfur | 1.6 | PC |
| Iron | Carbon | 0.8 | PC |
| Francium | Fluorine | 3.3 | I |
| Hydrogen | Xe | 0.4 | NPC |