**Solutions Chem:**

/5

**Shapes of Molecules (BEG): Quiz 2b**

Answer the following:

1. H2­S

|  |  |
| --- | --- |
|  | **Electron Dot (Lewis) Structure** |
| File:Hydrogen-sulfide-3D-balls.png |  |

What is the geometry of this molecule? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Are the bonds Non-Polar, Polar, or Ionic? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Complete the table below:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Molecule | 3D Structure | Bonding Pairs | Lone Pairs on Central Atom | Shape (name) |
| PF5 |  |  |  |  |

Answers:

1. H2S

|  |  |
| --- | --- |
|  | **Electron Dot Structure** |
| File:Hydrogen-sulfide-3D-balls.png |  |



What is the geometry of this molecule? bent



Are the bonds Non-Polar, Polar, or Ionic? En = 0.4 ; Non-Polar

1. Complete the table below: (1/2 mark each)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Molecule | 3D Structure | Bonding Pairs | Lone Pairs on Central Atom | Shape (name) |
| PF5 |  | 5 | 0 | Trigonal Bipyramidal |