Orbitals

1. How many orbitals are in a d subshell? $\qquad$
2. Sketch the three p orbitals.
3. Sketch the 1s, 2s, and $3 s$ orbitals.
4. A $g$ subshell has how many orbitals?
5. What is the maximum number of electrons that can occupy a $4 f$ orbital?
6. What is the maximum number of electrons that can occupy a $5 d$ subshell?
7. What is the total number of orbitals in an atom of Hg ?
