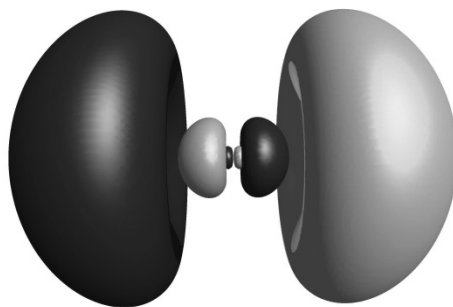


- Consider the $4p$ orbital shown below. Note that, for clarity, the nucleus of the atom is not shown.

Marks
3

How many spherical and planar nodes does this orbital have?

Number of spherical nodes:

Number of planar nodes:

Complete the following table to give a set of quantum numbers that describes an electron in a $4p$ orbital.

Quantum number	n			
Value	4			