

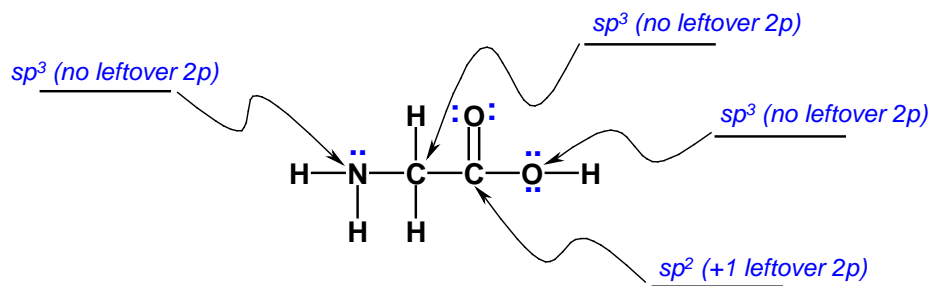
## Answers to Exercise 5.4 Hybridization

1.
  - (a) linear
  - (b) trigonal planar
  - (c) tetrahedral.

For questions 2 and 3, the best approach is to:

1. Add lone pairs to turn the drawing into a proper Lewis diagram
2. Determine the electron group geometry for each atom in question
3. Choose the appropriate hybrid orbital set based on the electron group geometry

2.



3.

