Answers to Exercise 8.2 Assigning Formal Charge

1. It is standard practice to write only the non-zero formal charges on the diagram. Atoms left blank are assumed to have formal charges of zero.

(a) (b)



2. (a) 4 (b) 2 (c) 2 (d) 1 3 (g) 4 (e) 1 (f) 1 (h)

3. (a) 0 (b) 2 (c) 2 (d) 3 1 (g) 3 (h) (e) 0 (f) 0

(b) 1. all atoms obey the octet rule (in the initial structure, the carbon atom did not)2. formal charges have been minimized