

$$\hat{F}_N = \text{diagram 1} + \text{diagram 2}, \quad (\text{non-canonical HF}).$$

The first diagram shows a horizontal line with an 'x' on the left, connected to a vertex. From this vertex, two lines branch out: one upwards and to the right labeled 'b', and one downwards and to the right labeled 'a'. Both branching lines have arrows pointing away from the vertex.

The second diagram is identical in structure, but the branching lines are labeled 'j' (upwards and to the right) and 'i' (downwards and to the right).