

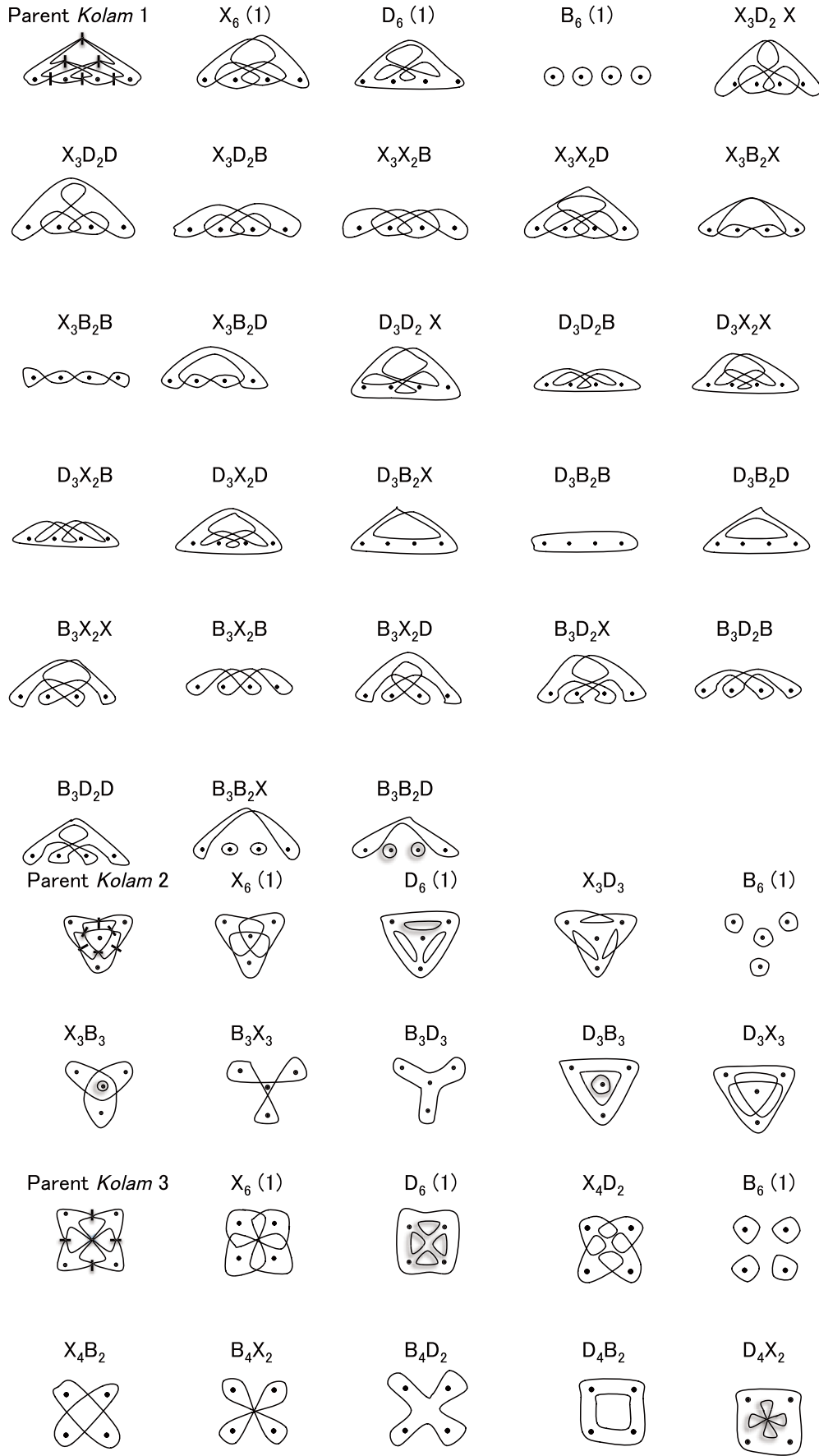


Fig. 10. Four dot ($N = 4$) kolams derived from the three parents in Fig. 8, under the rules of the rules **M1–M3**, and optional rules **O1** (only one circumscription per dot), **O2** (simplifying the line), **O5** ($J = 1$), and **O6** (symmetry equivalent junctions will have the same type of bond). Note that the parent kolams in this figure have been chosen in the special shapes of a line (parent 1), an equilateral triangle (parent 2) and a square (parent 3). These choices as well as the optional rules eliminate many kolams that a reader might otherwise be able to visualize.