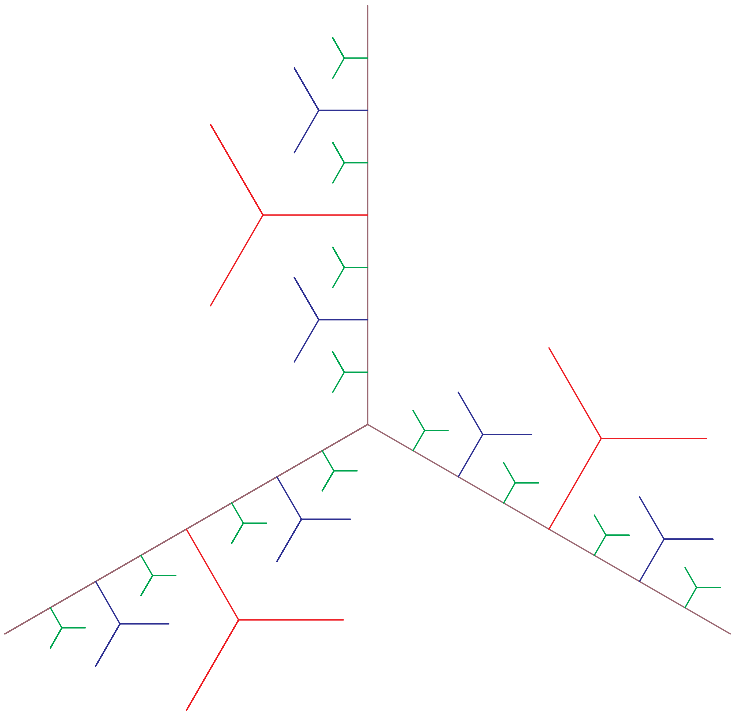

Figure 1.3.7: (A) standard universal dendrite D_3

D_ω, but instead of copies of F_ω we use copies of m-ods at each step of the construction. See Figures A–C for the standard universal dendrites D_3, D_4 and D_6.

The standard universal dendrites D_m have the following properties.

1. For each $m \in \{3, 4, \ldots, \omega\}$ D_m is universal in the class of all dendrites for which the order of their ramification points is less than or equal to m, see e.g. [Menger 1932, Chapter 10, §6, p. 322].

2. If $m, n \in \mathbb{N}$ with $3 \leq m < n$, then there exists an open mapping of D_n onto D_m, [Chaaratonik 1980, Theorem 2, p. 492].

3. Among all standard universal dendrites D_m only D_3 and D_ω are homeomorphic with all their open images, [Chaaratonik 1980, Corollary, p. 493].

4. For each $m \in \{3, 4, \ldots, \omega\}$ a monotone surjection of D_m onto itself is a near homeomorphism if and only if $m = 3$, [Charatonik 1991, Corollary 5.5, p. 178].