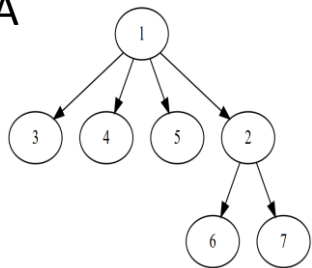


A



B

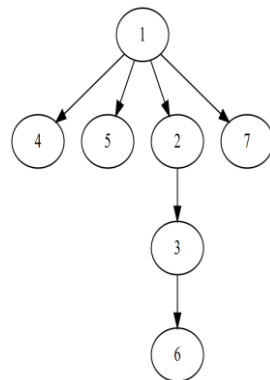
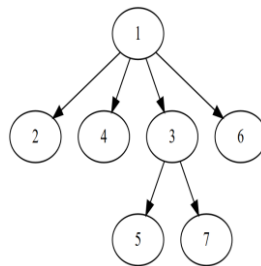


Figure S1. Let T_0 be the rooted star tree whose root is 1 and whose leaves are 2 to 7.

A. . Two rooted trees such that the ancestor difference measure between T_0 and them are 0.1428, but the Bourque distance between T_0 and them are 2 and 4.

B. Two rooted trees such that the triplet-based distances between T_0 and them are 0.3715, the common ancestor set measure between T_0 and them are 0.0238, but the Bourque distance between T_0 and them are 2 and 4.