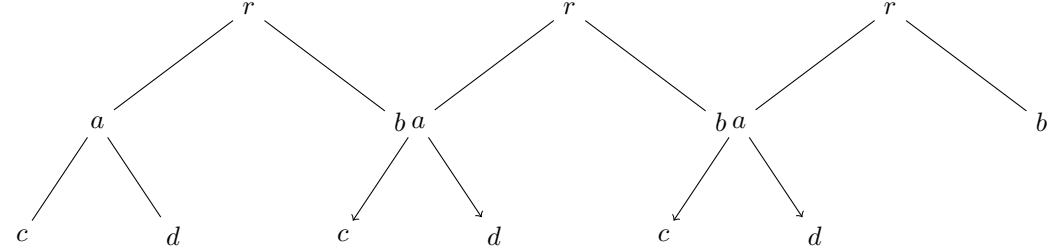

(a) G (b) MEC M_1 (c) MEC M_2

Figure 1: G is a tree graph with root node r. M_1 and M_2 are MECs (both obey item-1-of-thm:nes-and-suf-cond-for-tree-graph-to-be-an-MEC,item-2-of-thm:nes-and-suf-cond-for-tree-graph-to-be-an-MEC of thm:nes-and-suf-cond-for-tree-graph-to-be-an-MEC) with skeleton G. M_1 belongs to $G, r, 1$ as there is an edge $a \to r$ incoming towards r. M_2 belongs to $G, r, 0$ as none of the edges adjacent to r in M_2 is incoming towards r. M_2 also belongs to $G, r, 0, 1$ as it belongs to $G, r, 0$ and one edge adjacent to r in M_2 is undirected.