Universidade Federal do Piauí – UFPI

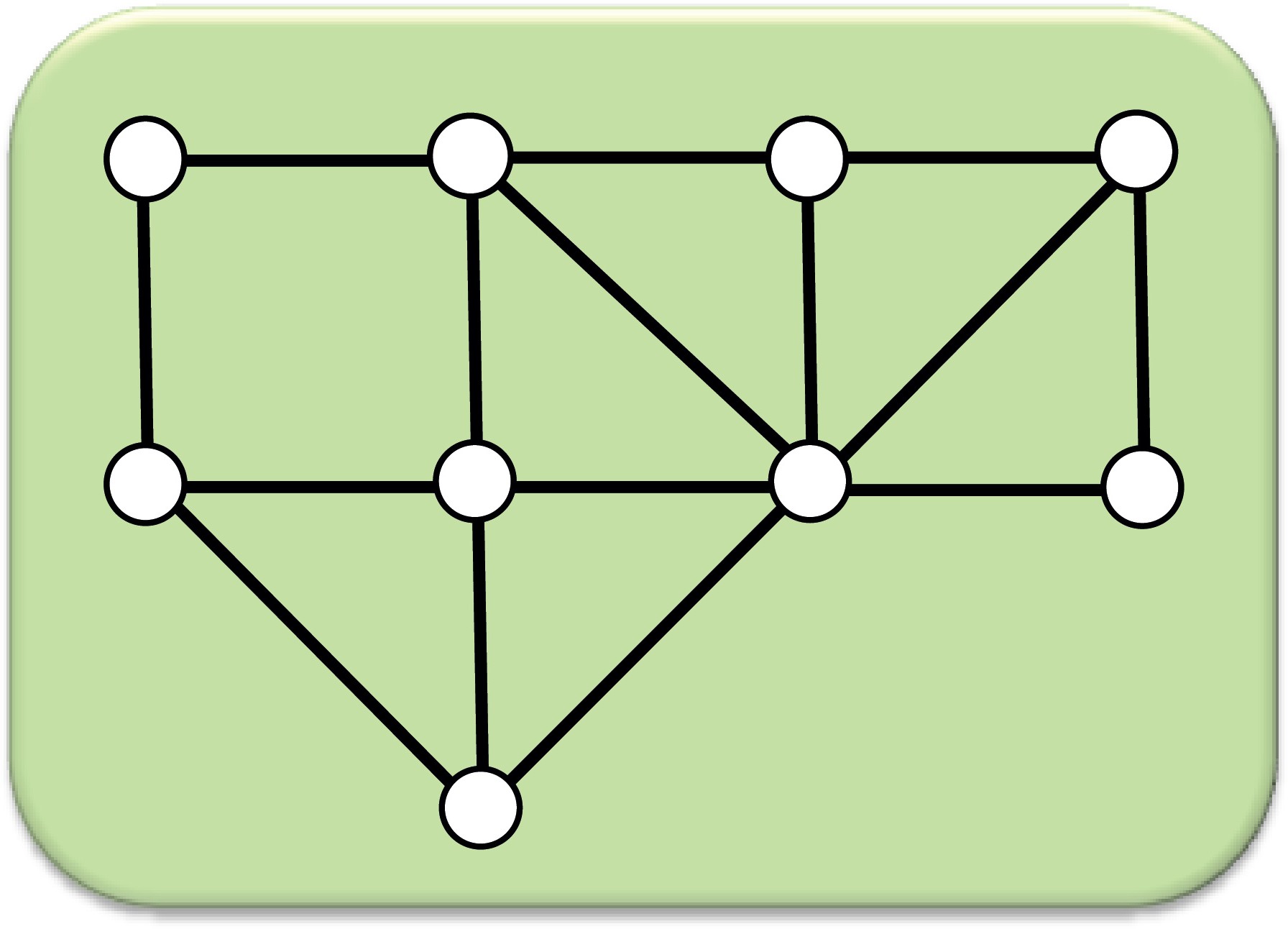
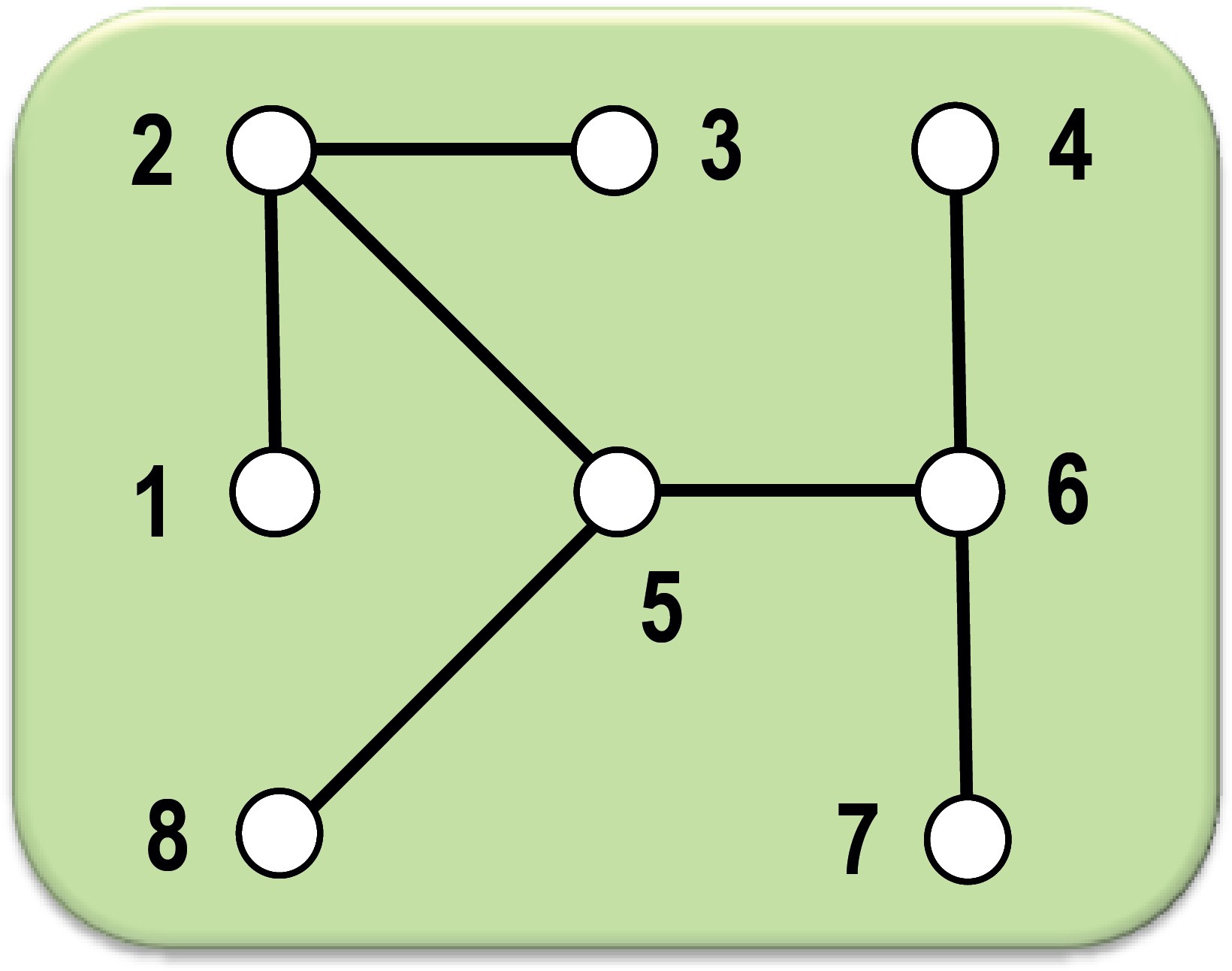
Campus Senador Helvídio Nunes de Barros – CSHNB Curso de Sistemas de Informação Bloco: IV Disciplina: Estruturas de Dados II

Professora: Juliana Oliveira de Carvalho

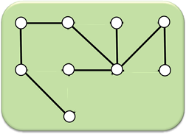
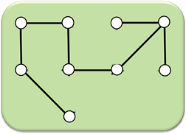
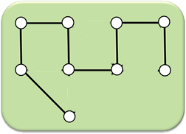
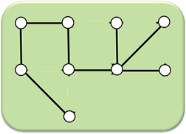
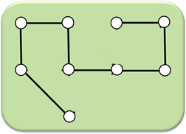
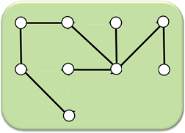
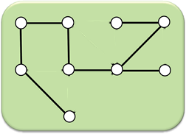
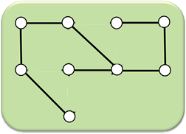
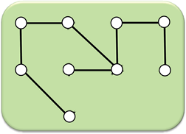
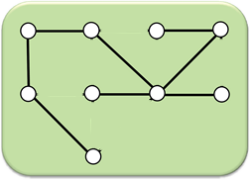
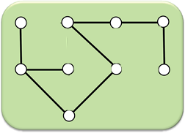
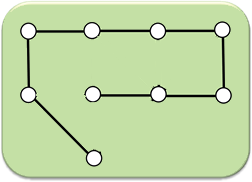
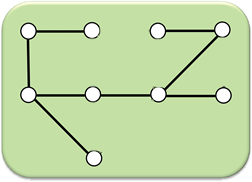
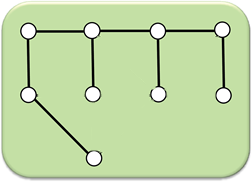
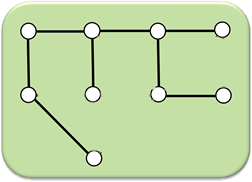
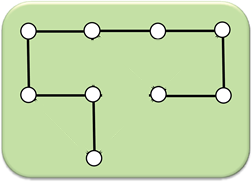
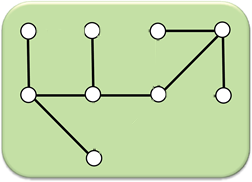
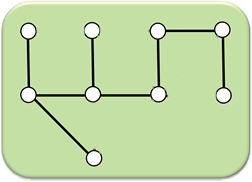
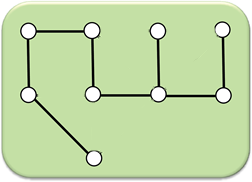
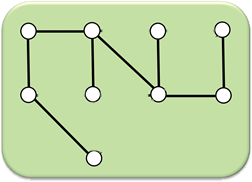
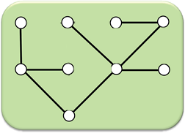
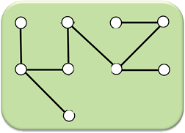
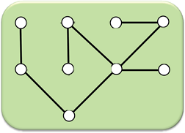
Acadêmico: Dayan Ramos Gomes Matrícula: 20209001285

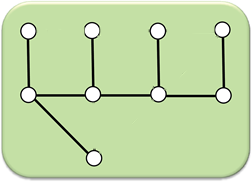
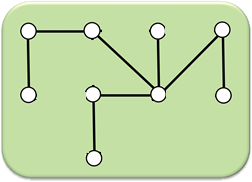
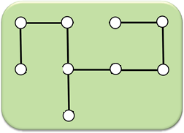
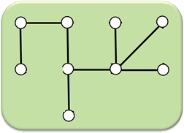
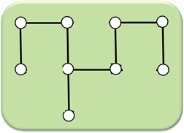
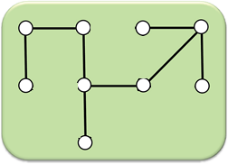
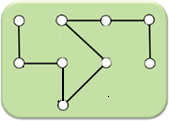
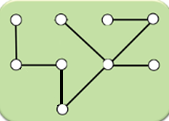
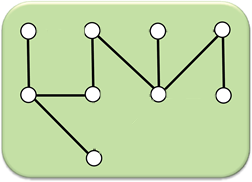
ATIVIDADE DE FIXAÇÃO 9

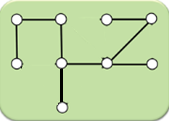
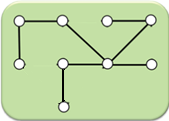
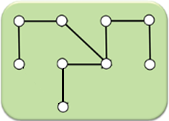
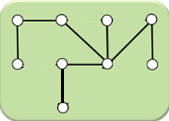
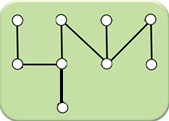
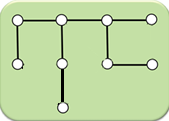
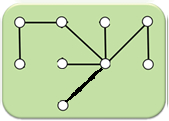
1. Identifique todas as árvores geradoras dos grafos das figuras a seguir:

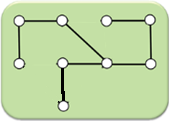
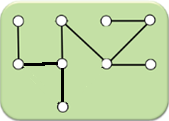
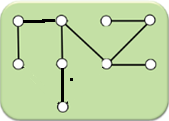
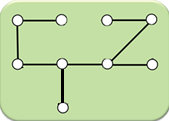
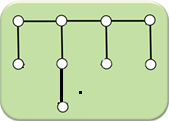
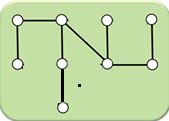
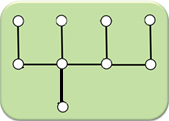
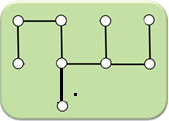
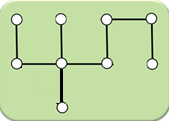
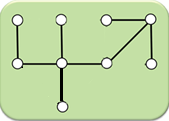
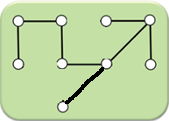
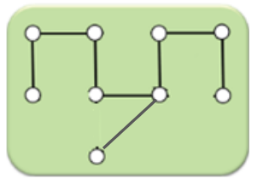
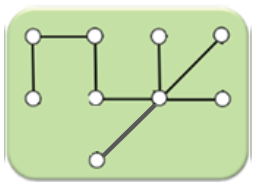
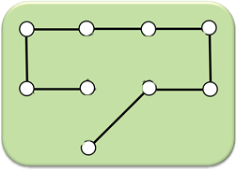
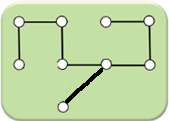


>Não possui árvores geradoras, pois ela já é uma árvore geradora mínima

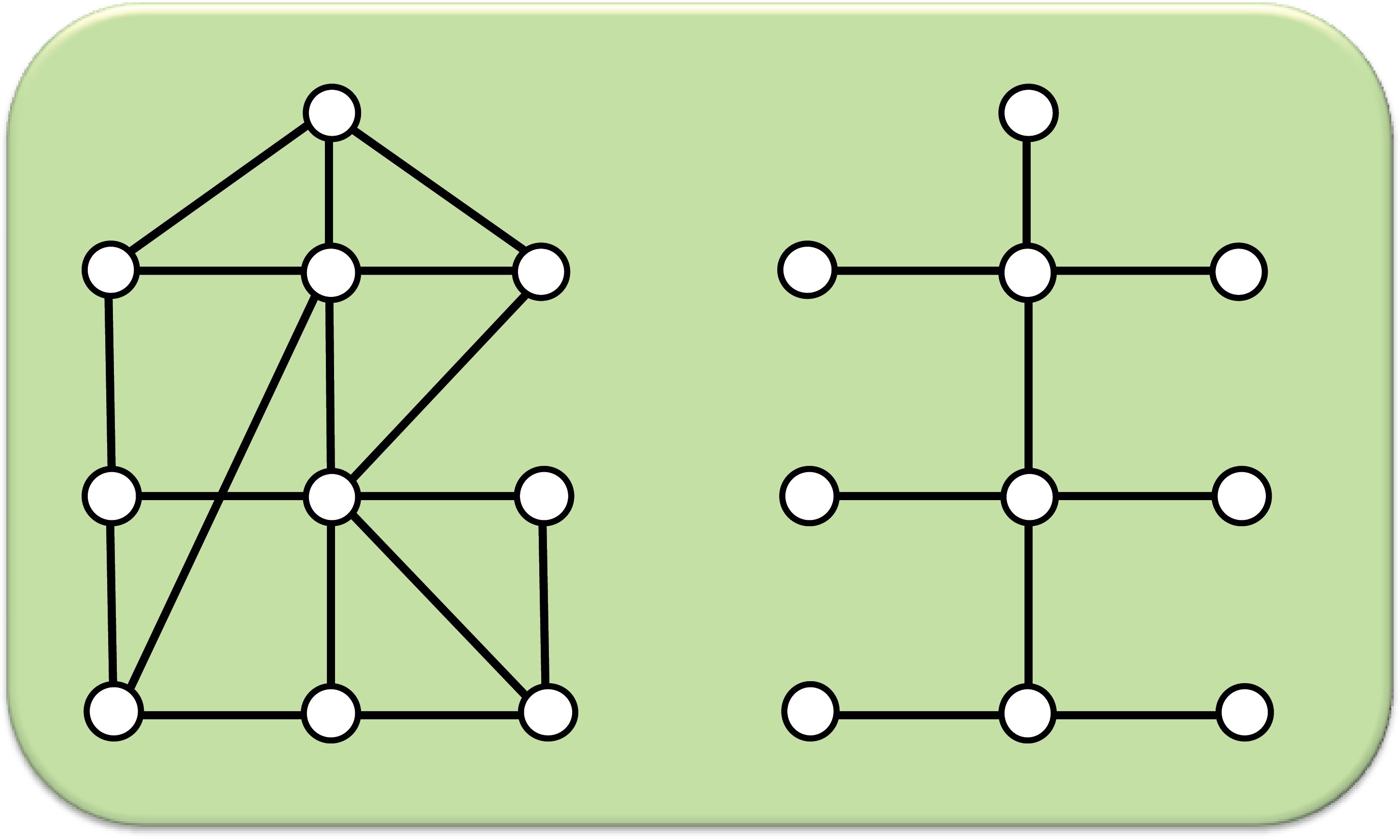
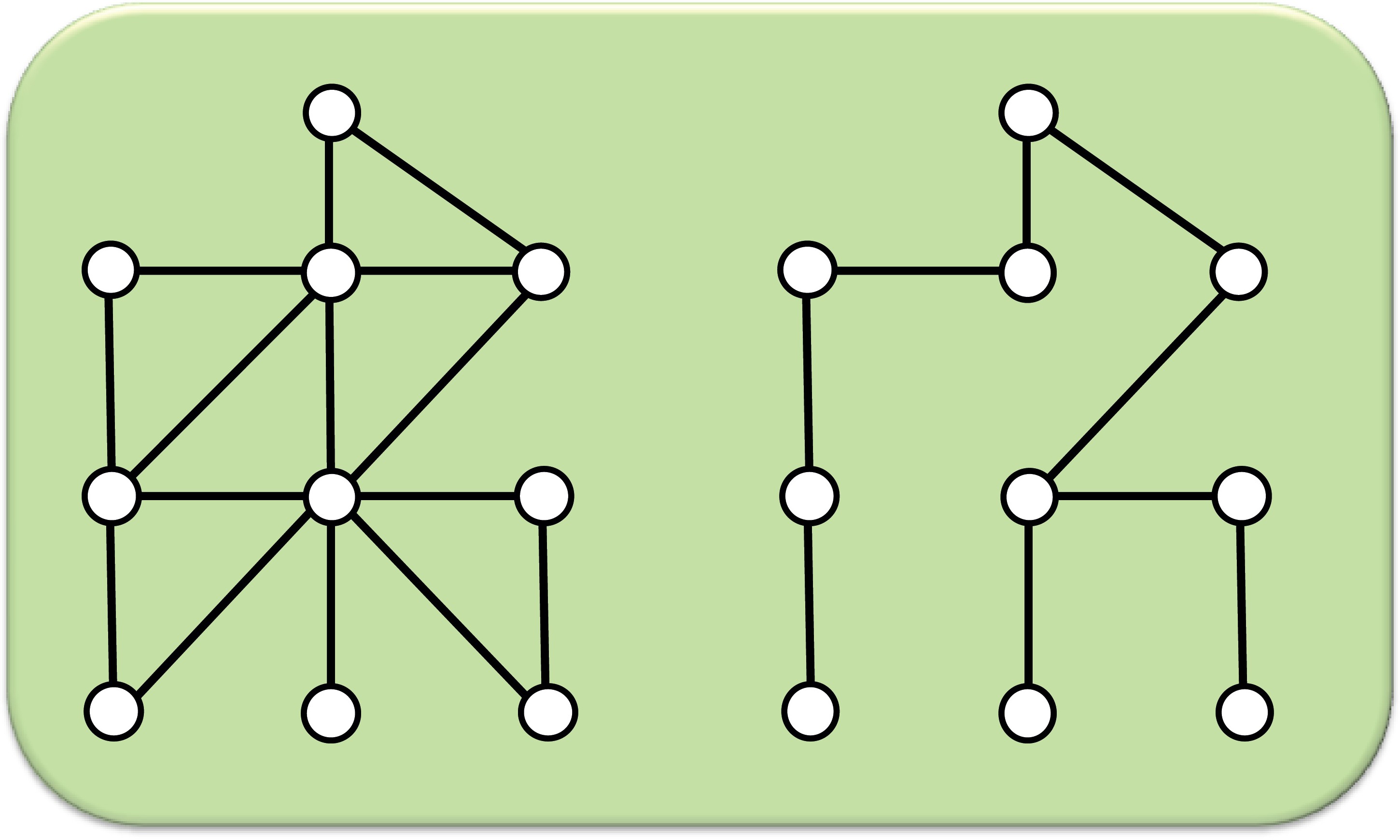


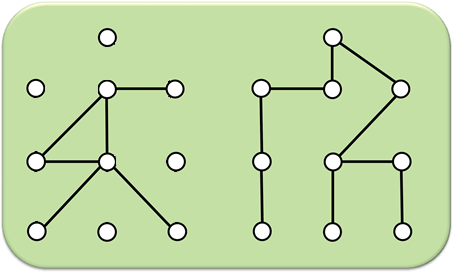
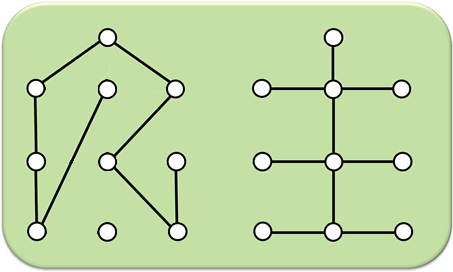




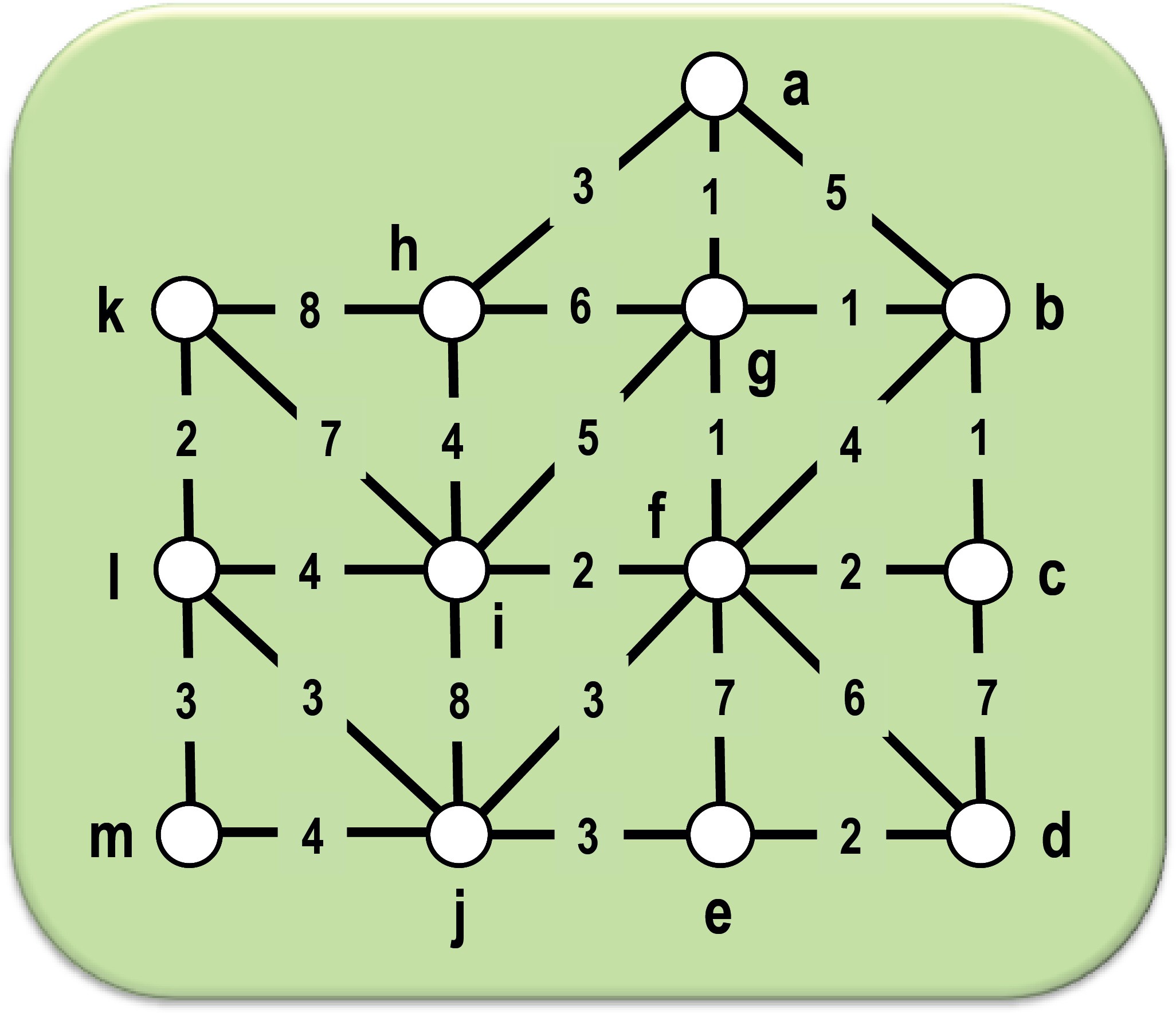


1. Dados os grafos e as árvores abaixo, determine suas coárvores geradoras.

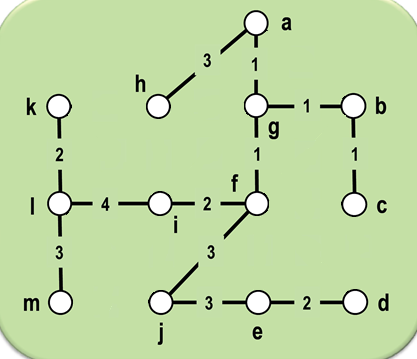


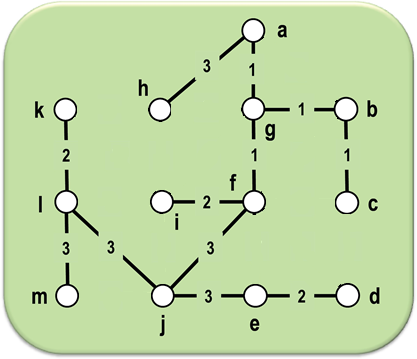
Coárvore 1: Coárvore 2:

1. Execute os algoritmos Prim, Kruskal e Boruvka par determinação da árvore geradora mínima no grafo da figura a seguir:



**Prim:**



**Kruskal:**

h1: (a, g): 1 ~~h14: (b, f): 4~~

h2: (b, c): 1 ~~h15: (h, i): 4~~

h3: (b, g): 1 ~~h16: (i, l): 4~~

h4: (f, g): 1 ~~h17: (j, m): 4~~

~~h5: (c, f): 2~~ ~~h18: (a, b): 5~~

h6: (d, e): 2 ~~h19: (g, i): 5~~

h7: (f, i): 2 ~~h20: (d, f): 6~~

h8: (k, l): 2 ~~h21: (g, h): 6~~

h9: (a, h): 3 ~~h22: (c, d): 7~~

h10: (e, j): 3 ~~h23: (e, f): 7~~

h11: (f, j): 3 ~~h24: (i, k): 7~~

h12: (j, l): 3 ~~h25: (h, k): 8~~

h13: (l, m): 3 ~~h26: (i, j): 8~~

Boruvka:

