

Atividade Individual – Encontro 02 (07/06/2023)

1) Dado o grafo G a seguir, forneça:

a) um subgrafo;

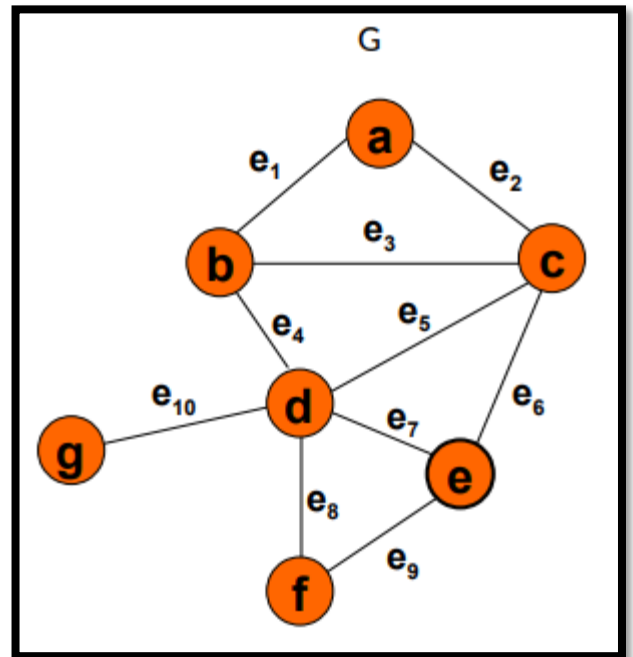
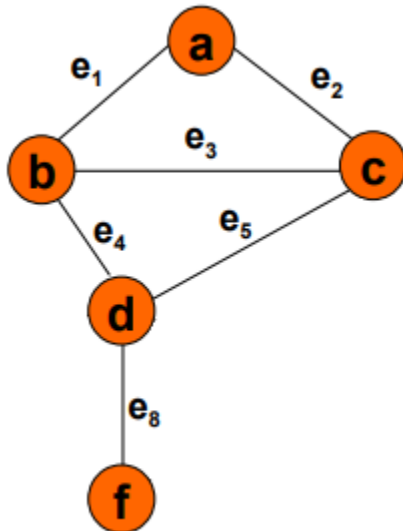
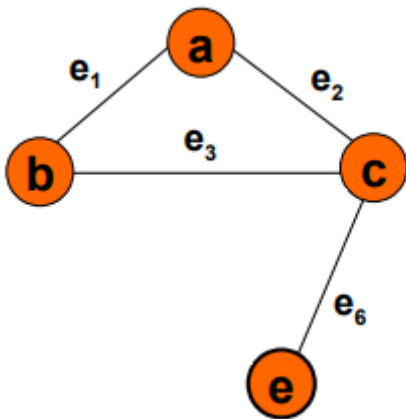


Figura 1 - Grafo G da questão 1

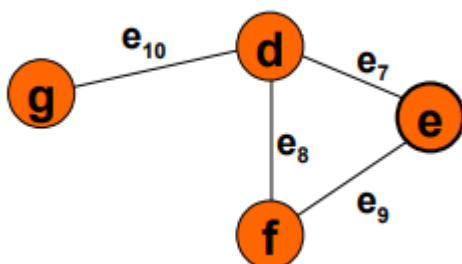
b) um subgrafo induzido por vértices;

- Subgrafo induzido $G[a, b, c, e]$

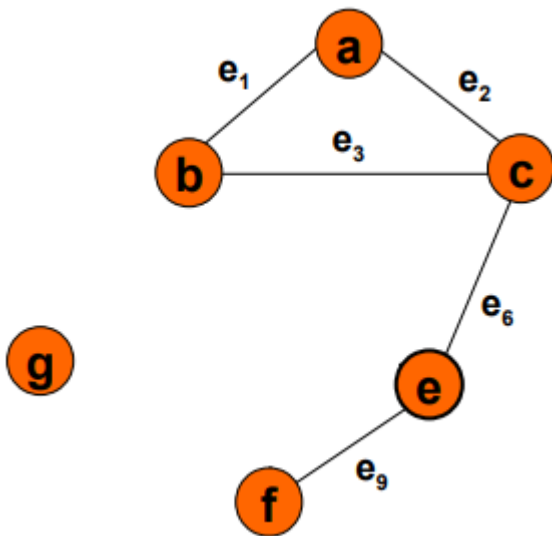


c) um subgrafo induzido por arestas;

- Subgrafo induzido $G[e_1, e_2, e_3, e_6]$



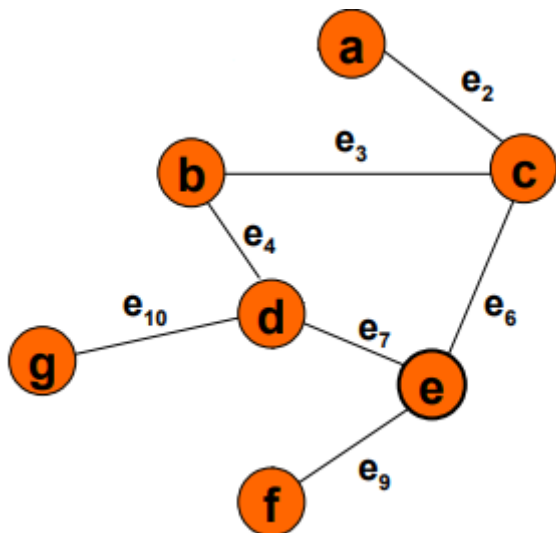
d) $G-d$;



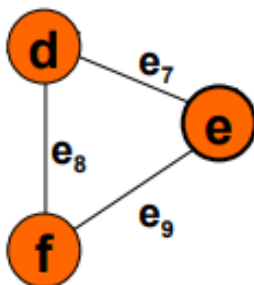
e) um conjunto independente de arestas;

- $\{e_1, e_5, e_9\}$ é um conjunto independente de arestas.

f) $G-\{e_1, e_5, e_8\}$;



g) uma clique;

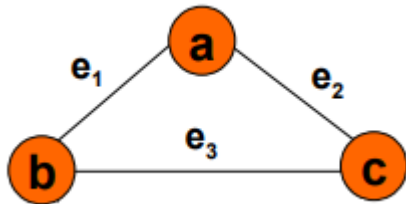


h) os vizinhos do vértice d;

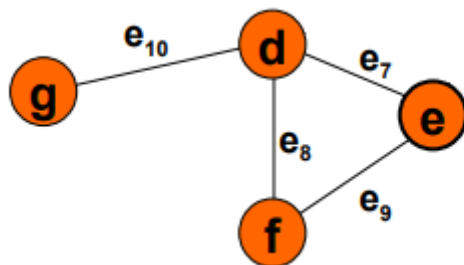
Vizinhos do vértice d {b, c, e, f, g}

i) dois subgrafos disjuntos em vértices;

- Subgrafo 1



- Subgrafo 2



j) \bar{G} .

- Grafo complementar de G .

