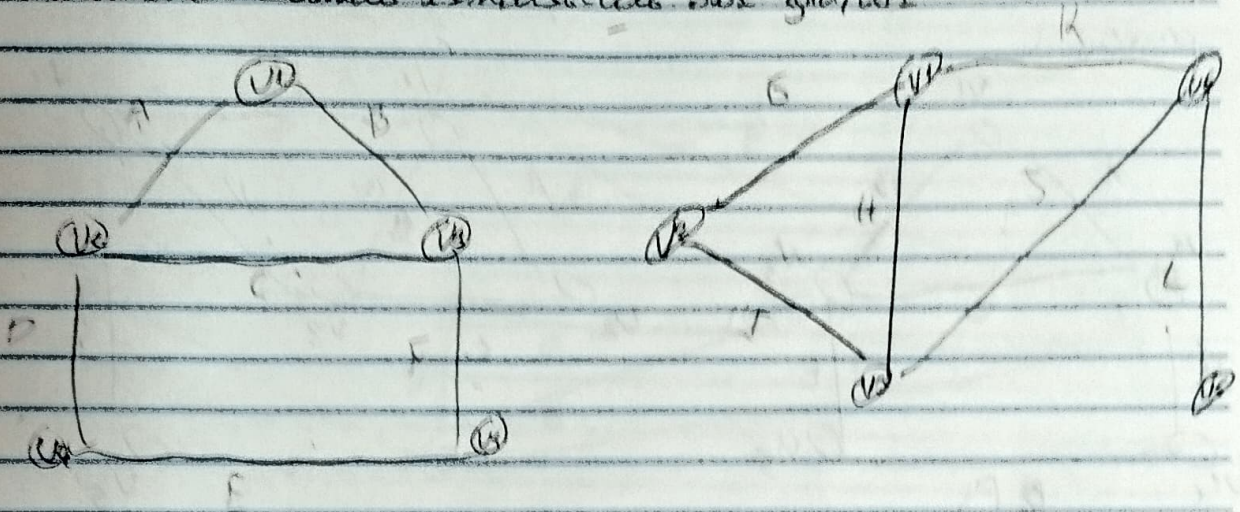


Exercício 1 - Aula 10

Determine a União e Interseção das grafos



União

$G_1 \cup G_2 =$

$V_3 = \{V_1, V_2, V_3, V_4, V_5, V_6\}$

$A_3 = \{A(V_1, V_2), B(V_1, V_3), C(V_2, V_3), D(V_2, V_4), E(V_4, V_5),$
 $F(V_3, V_5)\}$

$G(V_2, V_1), H(V_1, V_3), I(V_2, V_3), J(V_3, V_6), K(V_1, V_6),$
 $L(V_4, V_6)\}$

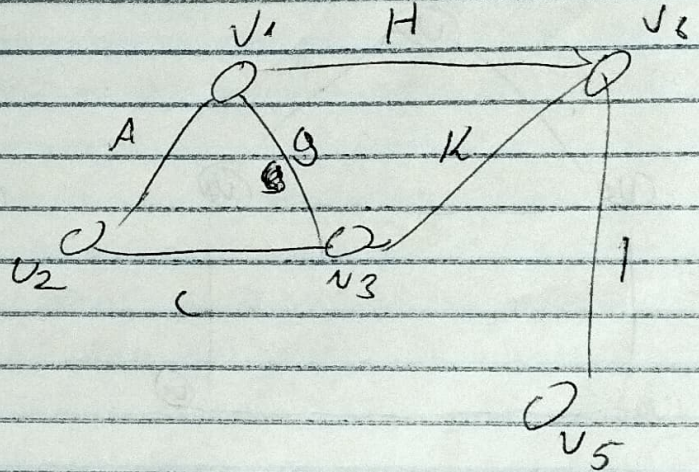
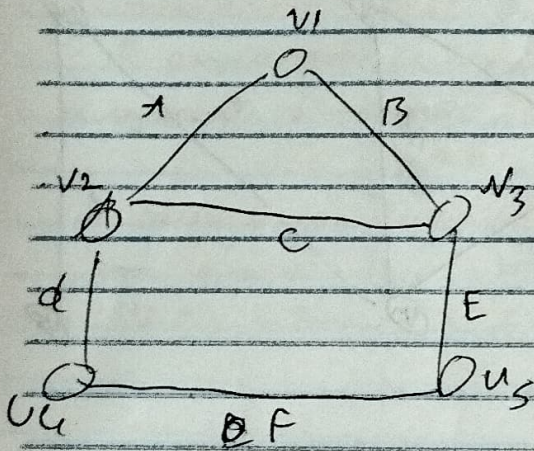
Interseção

$V_3 = \{V_1, V_2, V_3, V_4, V_5\}$

$A_3 = \{A(V_1, V_2), B(V_1, V_3), C(V_2, V_3), D(V_2, V_4), E(V_4, V_5),$
 $F(V_3, V_5)\}$

Exercício 2 - Ponte 4

Encontre o resultado da união, interseção, soma e soma disjunta



união

$$V_3 \cup \{V_1, V_2, V_3, V_4, V_5, V_6\}$$

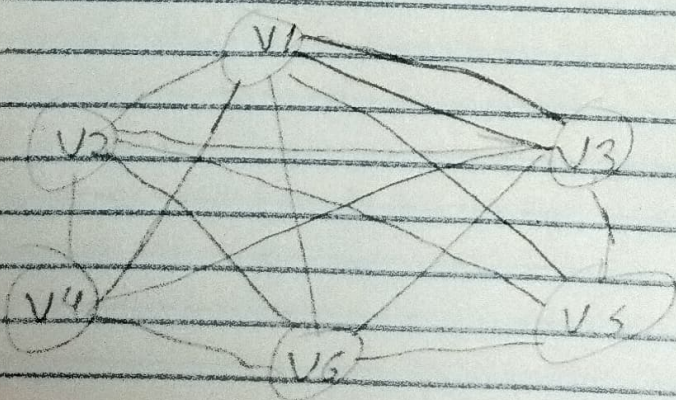
$$A_3 = \{A(V_1, V_2), B(V_1, V_3), C(V_2, V_3), D(V_2, V_4), E(V_3, V_4), F(V_4, V_5), G(V_1, V_3), H(V_1, V_6), I(V_5, V_6), K(V_3, V_6), L(V_5, V_6)\}$$

Interseção

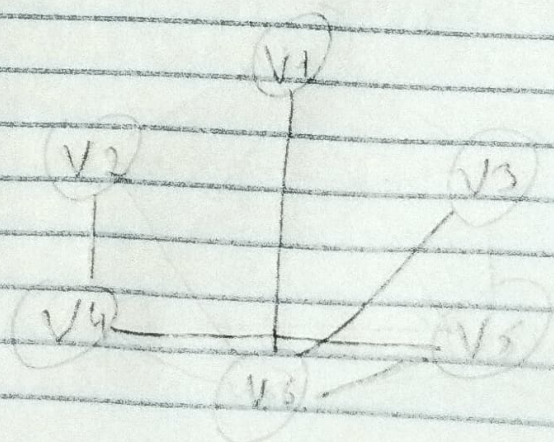
$$V_3 \cap \{V_1, V_2, V_3, V_4, V_5\}$$

$$A_3 \cap \{A(V_1, V_2), C(V_2, V_3), D(V_2, V_4), E(V_3, V_4)\}$$

Soma

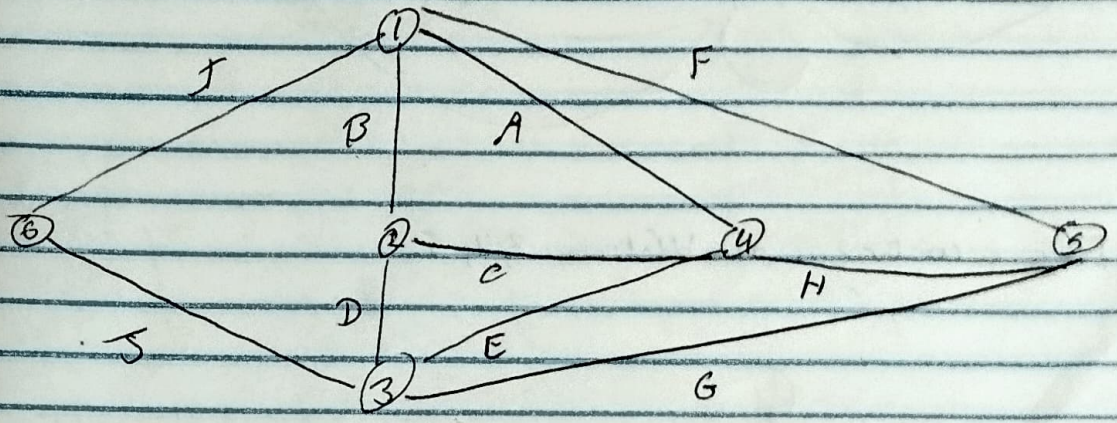


Soma Disjunta

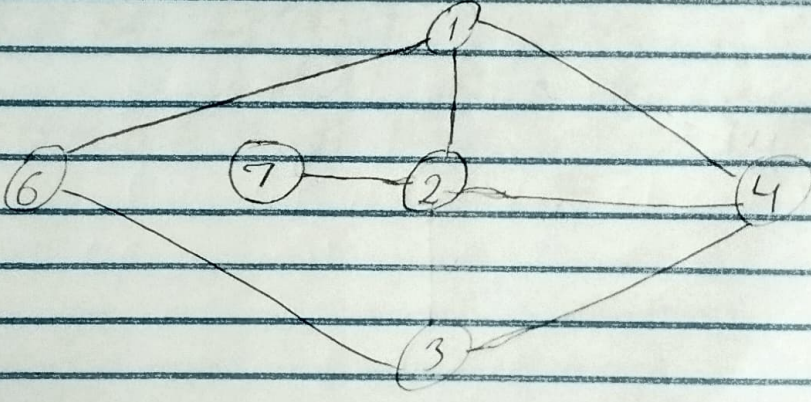


Exercício Parte 3 - Aula 5

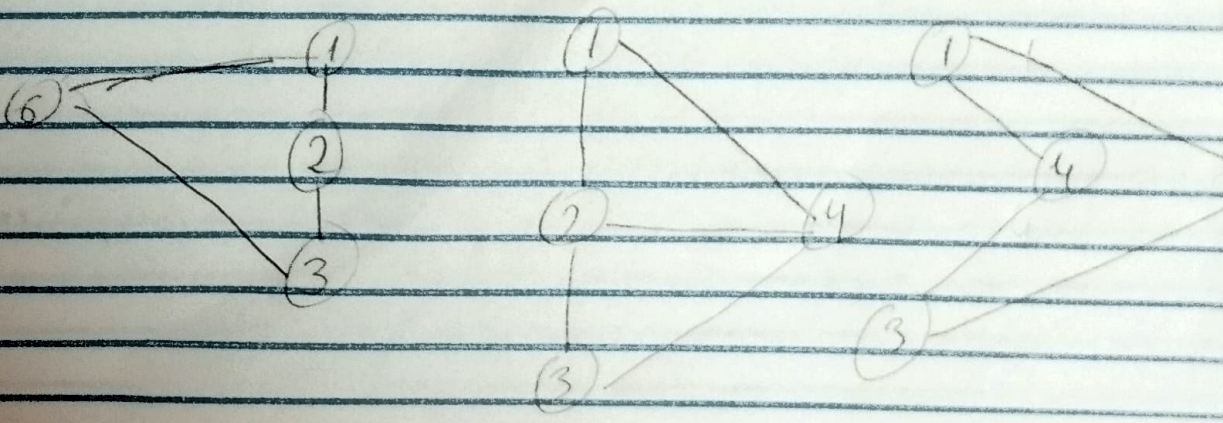
Considere o grafo:



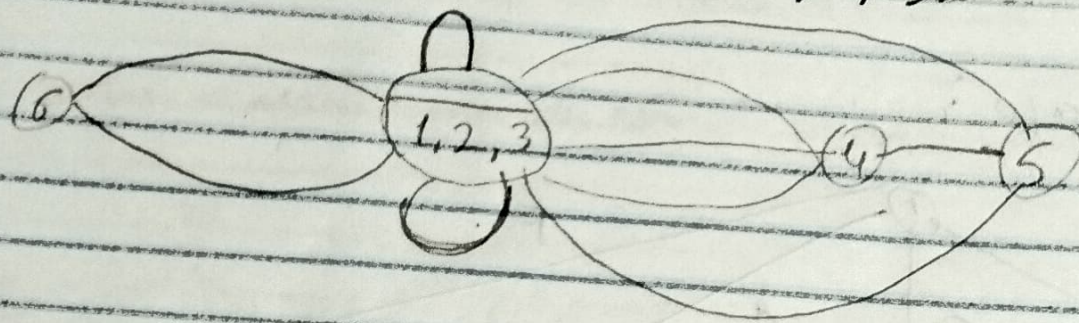
1) Remova o vértice 5 deste grafo. Acrescente a aresta (2,3). Contracia a aresta (2,3).



2) Decomponha este grafo em três sub-grafos.



③ Füge a Fusion der vertice 1, 2, 3.



4/ Füge a contraction der vertice 3, 4, 5.

