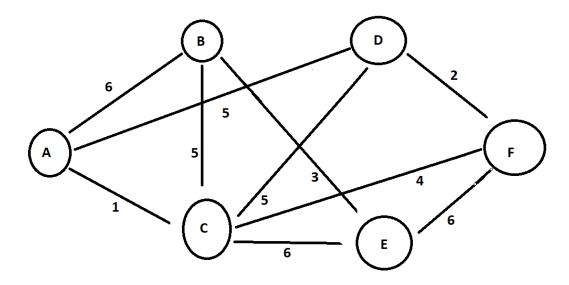
## Marcos Geraldo Braga Emiliano

## 19.1.4012



 $G(\{a,b,c,d,e,f\},\{\{a,b\},\{a,c\},\{a,d\},\{b,c\},\{b,e\},\{c,d\},\{c,e\},\{c,f\},\{d,f\},\{e,f\}\},w)\\ w(\{a,b\})=6,\ w(\{a,c\})=1,\ w(\{a,d\})=5,\ w(\{b,c\})=5,\ w(\{b,e\})=3,\ w(\{c,d\})=5,\\ w(\{c,e\})=6,\ w(\{c,f\})=4,\ w(\{d,f\})=2,\ w(\{e,f\})=6$ 

## Kruskal

Arestas ordenadas:

 $w({a,c})=1$ ,  $w({d,f})=2$ ,  $w({b,e})=3$ ,  $w({c,f})=4$ ,  $w({a,d})=5$ ,  $w({b,c})=5$ ,  $w({c,d})=5$ ,  $w({a,b})=6$ ,  $w({c,e})=6$ ,  $w({e,f})=6$ 

Conjuntos Disjuntos:

1a Passagem A<sup>0</sup>, B<sup>0</sup>, C<sup>0</sup>, D<sup>0</sup>, E<sup>0</sup>, F<sup>0</sup>

Arestas Adicionadas: {a,c}, {d,f}, {b,e}

2a Passagem A1-> C0, B1-> E0, D1-> F0

Arestas Adicionadas: {c,f}

 $3^{a}$  Passagem (A<sup>2</sup>)-> (C<sup>0</sup> || D<sup>1</sup>-> F<sup>0</sup>), B<sup>1</sup>-> E<sup>0</sup> #A tem como filhos C e D->F

Arestas Adicionadas: {b,c}

 $4^a$  Passagem (A<sup>2</sup>)-> (C<sup>0</sup> || D<sup>1</sup>-> F<sup>0</sup>|| B<sup>1</sup>-> E<sup>0</sup>)

#A tem como filhos C, D->F, B->E

Arvore Geradora Mínima:  $w(\{a,c\})=1$ ,  $w(\{d,f\})=2$ ,  $w(\{b,e\})=3$ ,  $w(\{c,f\})=4$ ,  $w(\{b,c\})=5$ 

## Prim:

| Set S       | Α      | В        | С        | D        | E        | F        |
|-------------|--------|----------|----------|----------|----------|----------|
| {}          | 0/Null | Inf/Null | Inf/Null | Inf/Null | Inf/Null | Inf/Null |
| Α           |        | 6/A      | 1/A      | 5/A      | Inf/Null | Inf/Null |
| A,C         |        | 5/C      |          | 5/A      | 6/C      | 4/C      |
| A,C,F       |        | 5/C      |          | 2/F      | 6/C      |          |
| A,C,F,D,B   |        |          |          |          | 3/B      |          |
| A,C,F,D,B,E |        |          |          |          |          |          |