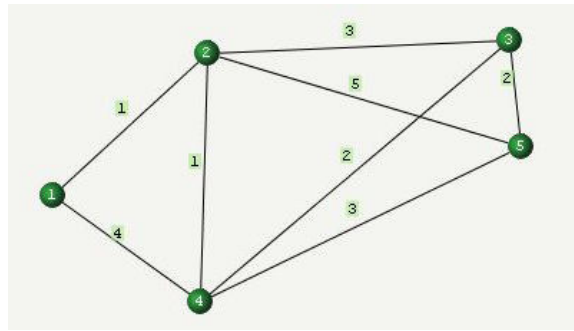


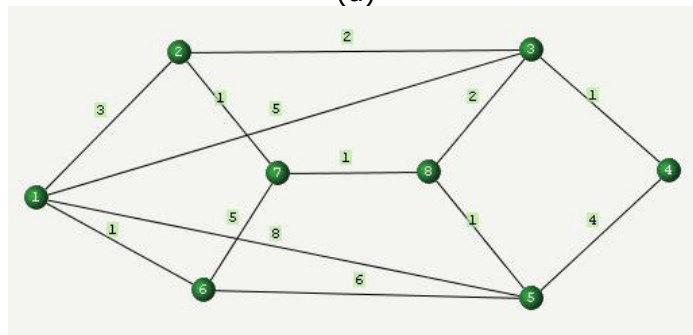
## Disciplina: Teoria dos Grafos

### Atividade: Caminho Mínimo e Árvore Geradora Mínima

1. Utilize o algoritmo de Floyd para encontrar as distâncias correspondentes a todos os caminhos mínimos. Mostre os valores sucessivos da matriz A para cada passagem do laço externo.

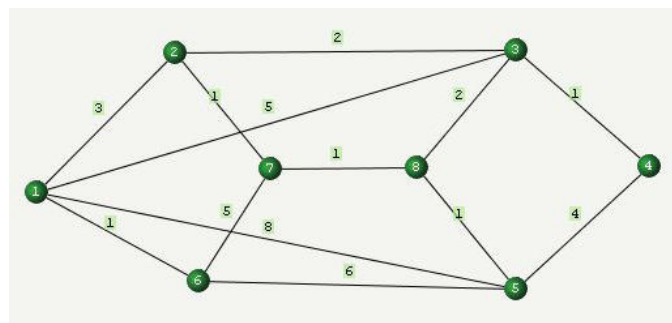


(a)

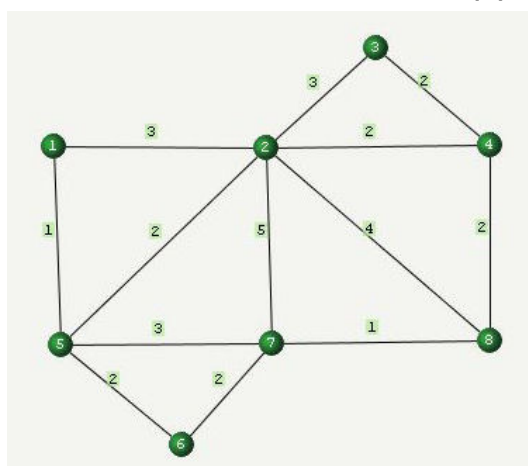


(b)

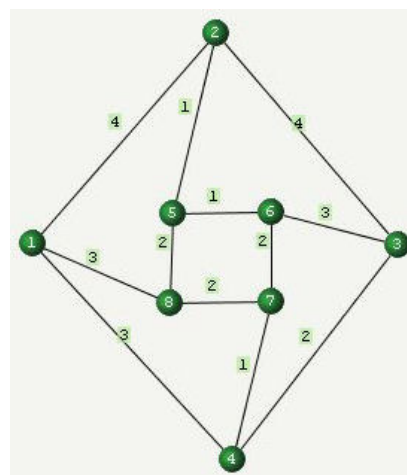
2. Para os grafos abaixo, utilize o algoritmo de Prim para encontrar uma árvore geradora mínima.



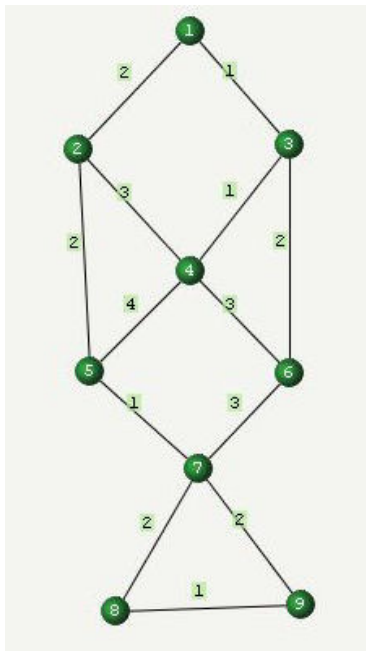
(a)



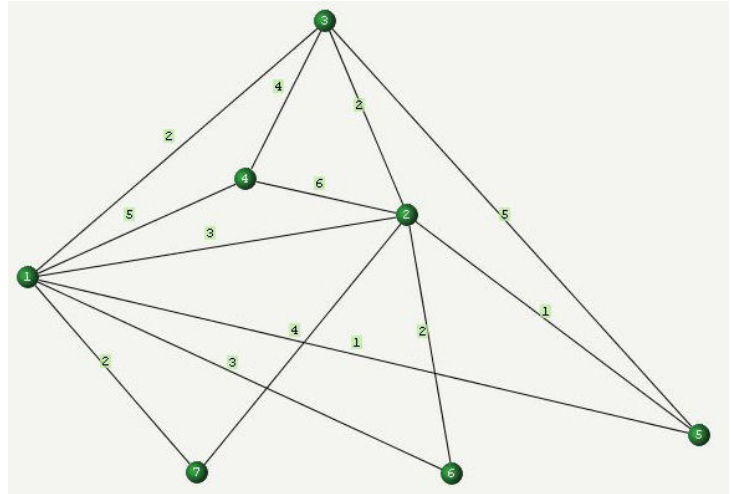
(b)



(c)

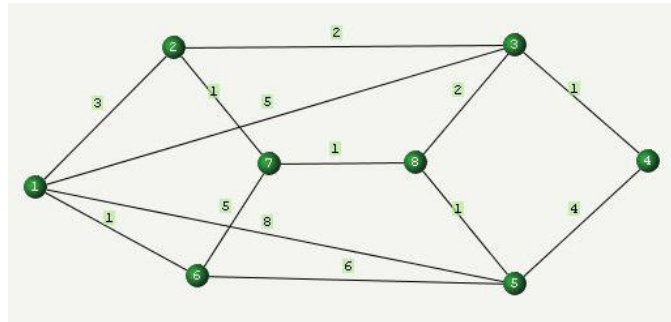


(d)

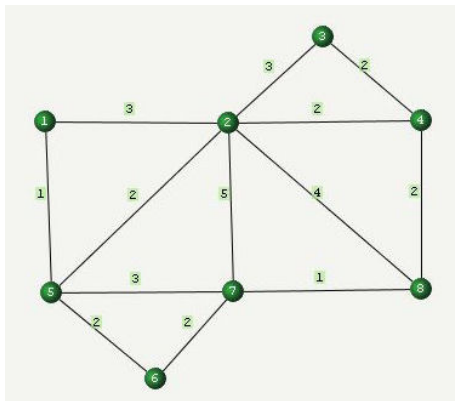


(e)

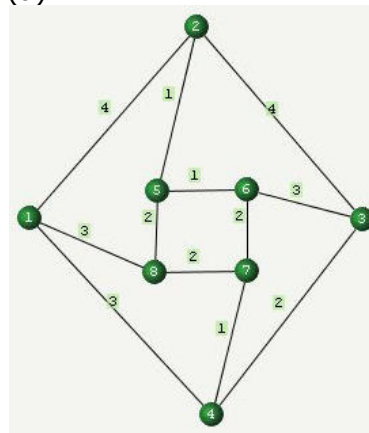
3. Para os grafos do exercício 2, utilize o algoritmo de Kruskal para encontrar uma árvore geradora mínima.



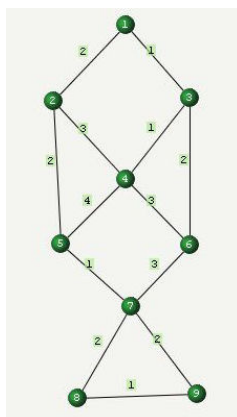
(a)



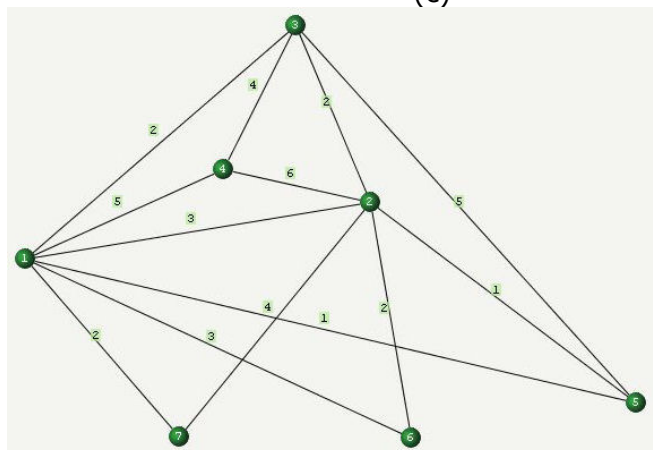
(b)



(c)



(d)



(e)