

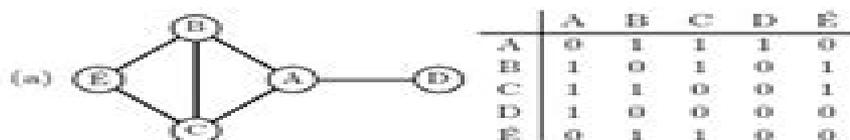
Exercises - Graph Theory SOLUTIONS

Question 1

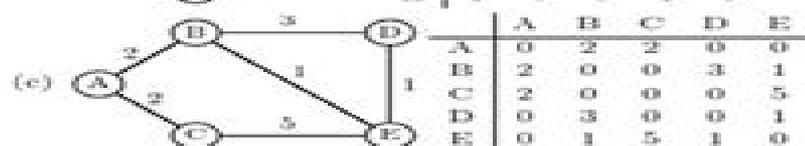
Model the following situations as (possibly weighted, possibly directed) graphs. Draw each graph, and give the corresponding adjacency matrices.

- Ada and Bertrand are friends. Ada is also friends with Cecilia and David. Bertrand, Cecilia and Évariste are all friends of each other.
- Wikipedia has five particularly interesting articles: Animal, Burrow, Chile, Desert, and Elephant. Some of them even link to each other!
- It is well-known that in the Netherlands, there is a 2-lane highway from Amsterdam to Breda, another 2-lane highway from Amsterdam to Cappelé aan den IJssel, a 3-lane highway from Breda to Dordrecht, a 1-lane road from Breda to Ede and another one from Dordrecht to Ede, and a 5-lane superhighway from Cappelé aan den IJssel to Ede.

Solution



- (b) Checking Wikipedia, we find that the Animal article links to none of the others, the Burrow article links to Animal and Chile, the Chile article links to Desert, the Desert article links to Chile, and the Elephant article links to Animal and Desert. Strangely, no relation between Burrow and Elephant seems to be present. We encode this information with a directed graph.



Question 2

Answer for each of these graphs: Is it planar? Is it bipartite?



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