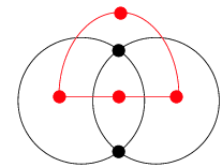


3.1. General Area-Proportional Embedding

What is an area-proportional diagram?

Another general embedding technique

Adapting this to area-proportional layout



What is an area –proportional diagram?

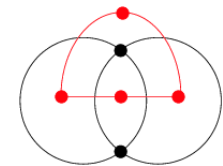
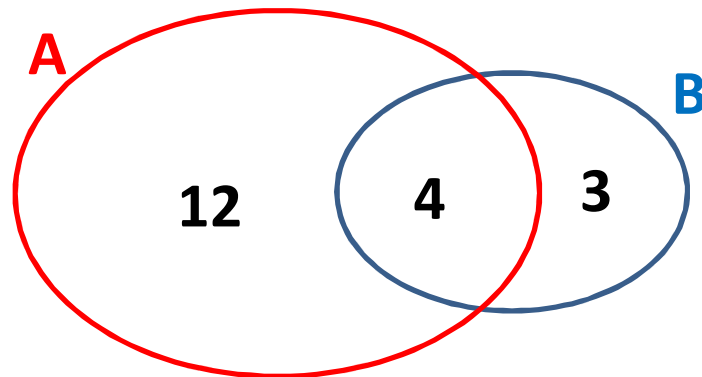
We are given an abstract description and an area specification:

A:12

B:3

AB:4

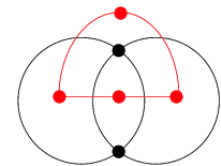
The areas of the zones in the diagram should match the area specification



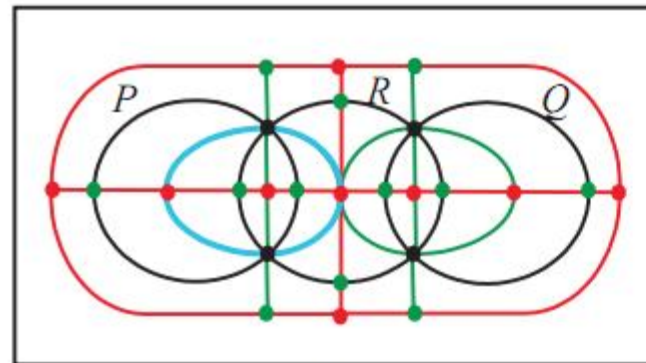
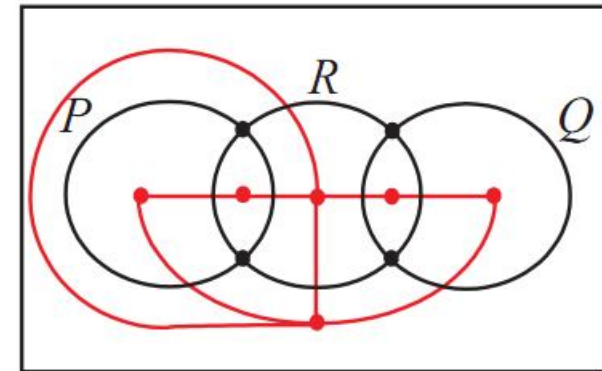
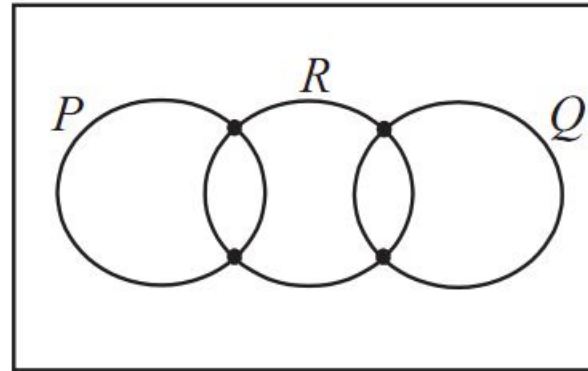
Inductive generation

Adding curves using cycles

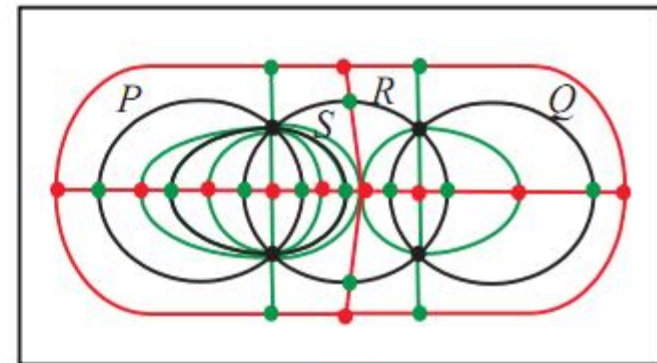
We treat the Euler diagram as a graph, and add further elements to allow for new curves to be added by finding paths



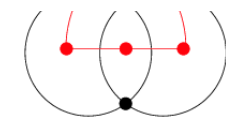
Example of building up the graph



d_{26}



d_{27}



When we route the curves we can add them in such a way as to ensure the areas are correct

Its possible to calculate the areas of the zones in the inductive diagrams

(WORKED EXAMPLE)

