

Institute of Theoretical Computer Science

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Exercises for the course

**Web Algorithms**

Semester WS05/06

Exercise sheet 13

**EXERCISE 13.1:**

Consider the following metric for nodes in a graph. The metric is defined as the distance between a pair of nodes in the graph, i.e. the number of edges of a shortest path connecting them in the graph. Provide a graph which can not be embedded into the 2-dimensional Euclidean space (i.e. plane with euclidean distance).

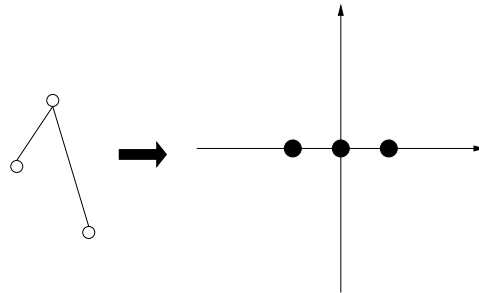


Figure 1: Example of an embeddable graph

**Deadline:** You are to hand in your solutions during the exercise class on Wednesday, February 8th, 14.15–15.00 in CAB G51.