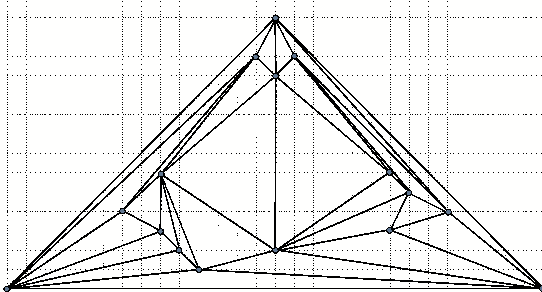


Figure 1: Graph G



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Graph Drawing

Exercise Set 6

FS10

URL: <http://www.ti.inf.ethz.ch/ew/courses/GD10/>

Exercise 1

Given two points $a = (u, v)$ and $b = (x, y)$ in the plane, what are the coordinates of the intersection of the line passing through a with slope 1 and the line passing through b with slope -1 ?

Exercise 2

Consider the graph G from Figure 1. Give

- a canonical ordering for G ,
- the corresponding binary tree structure used to compute the x -offsets in the algorithm of de Fraysseix et al.

Exercise 3

Give pseudocode to calculate the x coordinates from the offset data structure.