

Section 1.2. Similar Figures.

Note. We very briefly consider generalizing Thales' idea of similar triangles and constructing (in the spirit of compass and straight-edge style) rational numbers.

Note. In the works of Christopher Clavius (1538–1612) and François Viète (1540–1603), a generalization of Thales' Theorem on similar triangles appears. Two figures are *similar with similarity center* O when corresponding points A_i, B_i, C_i lie on lines through O then the corresponding lines A_iA_j, B_iB_j, C_iC_j are parallel. Thales' Theorem then implies that pairs of triangles with a vertex at O implies that corresponding lengths of similar figures are proportional. See Figure 1.4.

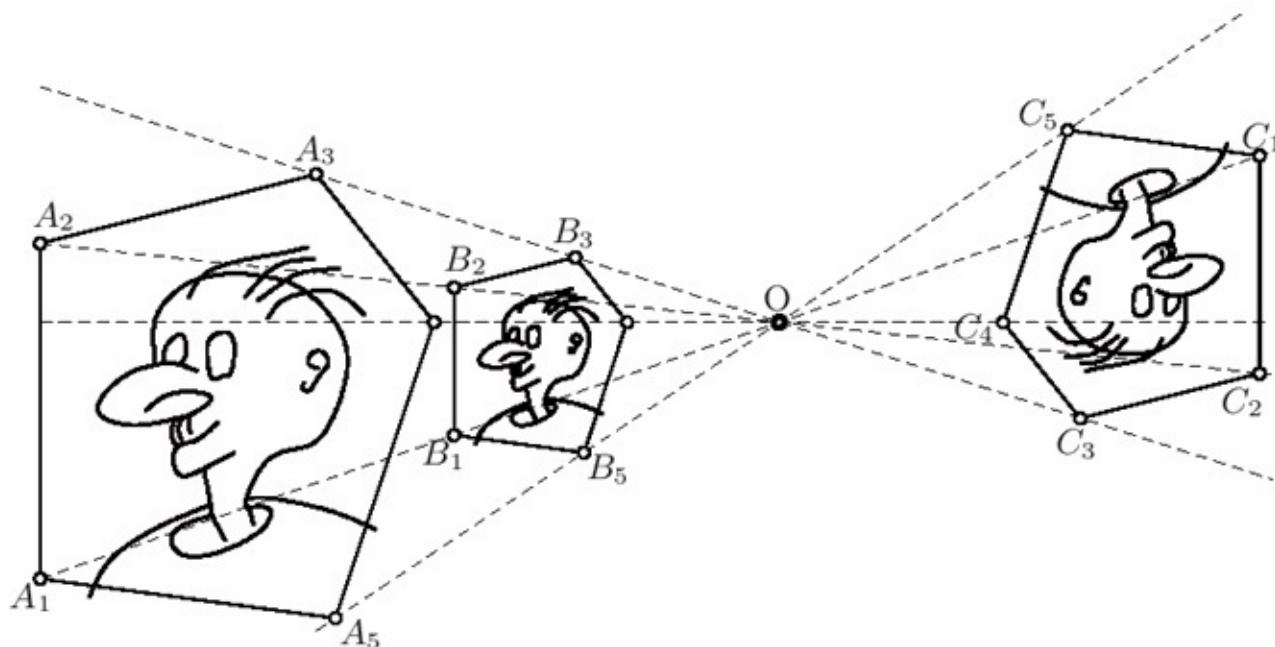


Fig. 1.4. Similar figures: illustration inspired by Clavius and Viète, improved by modern computer technology

