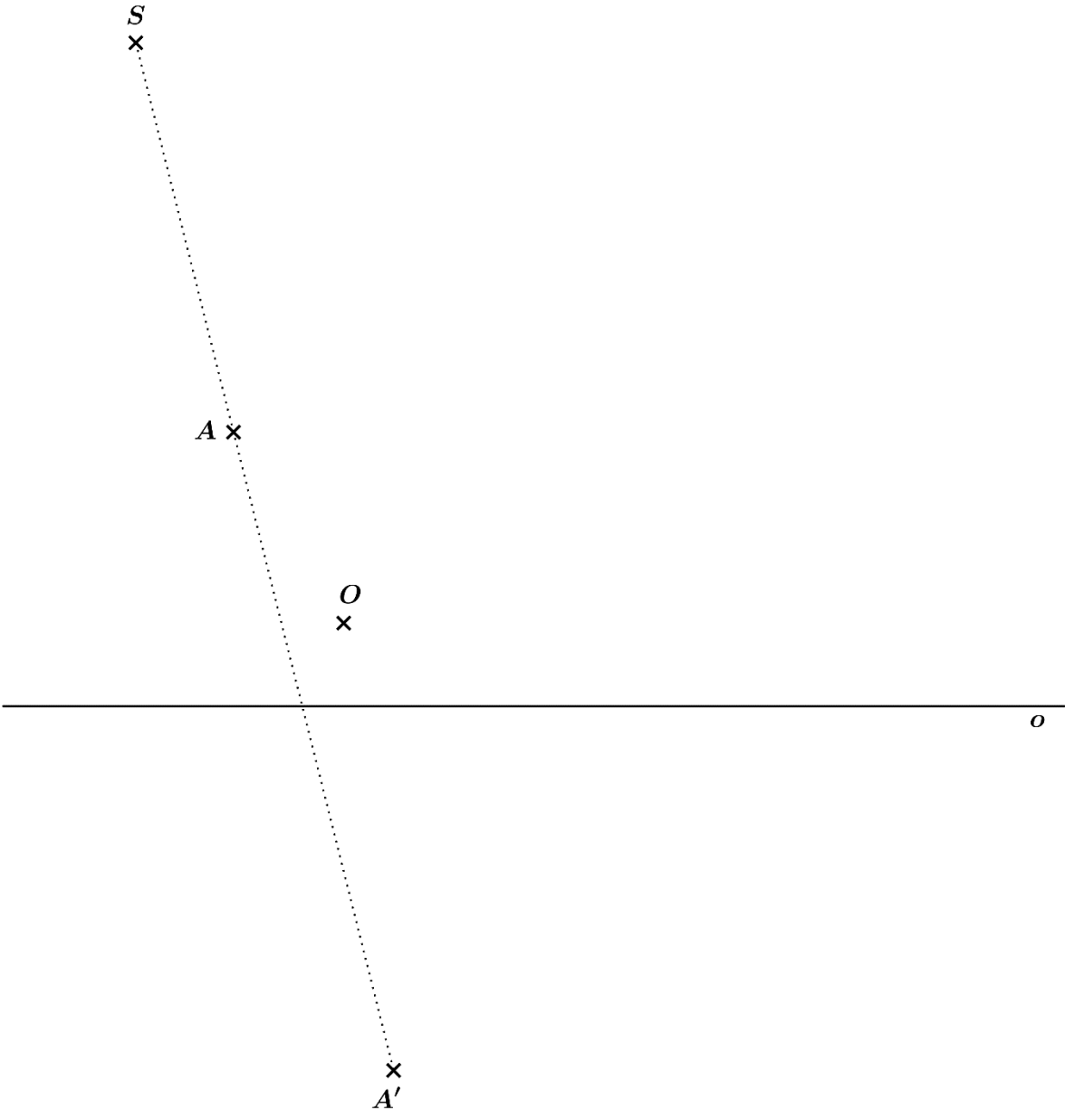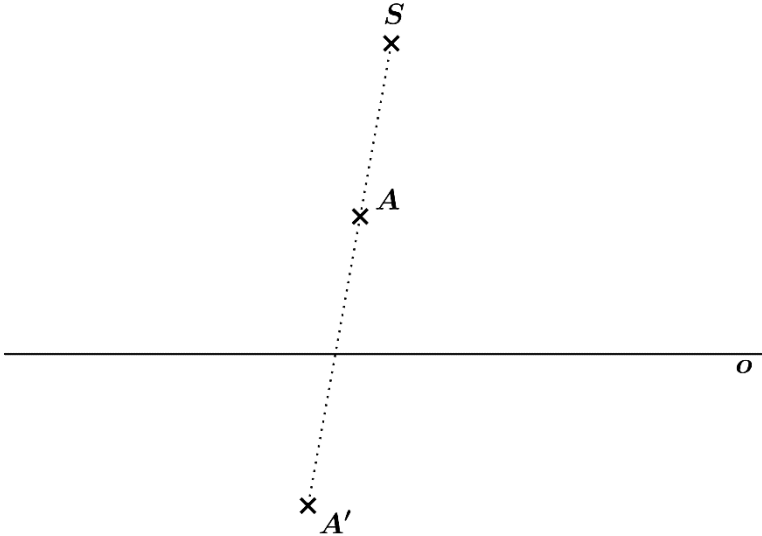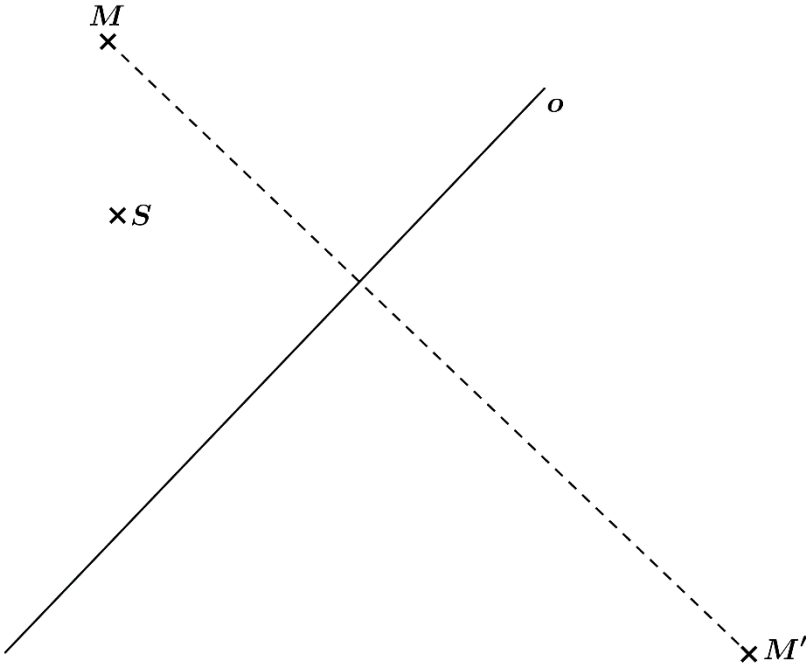**a)** In Collineation $KO(S, o, A \leftrightarrow A')$ construct a collinear image of a regular hexagon given by its vertex A and a center O.

b) In collineation $KO(S, o, A \leftrightarrow A')$ construct both vanishing lines.

S
×

× A

o

×
A'

c) In orthogonal affinity $AF(o, M \leftrightarrow M')$ construct an affine image of a circle k given by its center S and passing through a point M.

M
×

o

×S

×M'

d) In affinity $AF(o, S{\leftrightarrow}S')$ construct an affine image of a circle $k(S, r = 30)$. Required solution: choose arbitrary conjugate diameters and use Rytz construction.