Construct the intersection of semi-sphere with cylinder. The semi-sphere is standing on the first image plane with its principal circle, the radius of it is R_{sp}, the cylinder is horisontal. The axis of it is a_{cyl}.

Let the curve of intersection have one double-point. Construct all the important points, and tangent at a general point of the curve.

a''_{cyl}

R_{sp} O''

a'_{cyl}

O'