g_1''

t''

M''

x_{12}

r

g_1'

M'

t'

Construct the intersection of a right circular cone with vertical axis and a plane given by its gradient line g_1. The radius of the base circle is r, the vertex of the cone is M.

Construct:
  - the axes of the hyperbola
  - with the axis-points and tangents,
  - the asymptotes,
  - the points on the base and top circles,
  - points on the outline generators,
  - points in different heights and
  - tangent at a general point of the curve of intersection.
  Show the visibility of the curve on the cone.