Complete front view, showing lines of intersection and defining visibility.

Vertical cutting plane
piercing points
1. Create a number of generators of inclined cylinder, in both views.

2. Identify piercing points on generators in top view.

3. Project down to corresponding points in front view.

4. Note that intersection curves project as straight lines if intersecting cylinders have same diameter.
Find intersection of line MR with cylinder, and define visibility

**Method 1**
1. Use inclined cutting plane ICP containing MR.
2. In left side view, draw elliptical section of cylinder created by cutting plane.
3. Locate piercing points of MN with ellipse at $x_3, y_3$.
4. Project across to $x_2, y_2$ on $m_2r_2$. 
Find intersection of line MR with cylinder, and define visibility

**Method 2**
1. Use cutting plane normal to base of cylinder and containing MR.
2. Find trace AB of cutting plane on the base plane.
3. Draw intersections of cutting plane with cylinder to locate piercing points $x_3, y_3$.
4. Project across to $x_2, y_2$ on $m_2r_2$. 

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13.8 (4)
Find intersections of cutting planes CP1 and CP2 with the cylinder.
Find intersection of the two solids