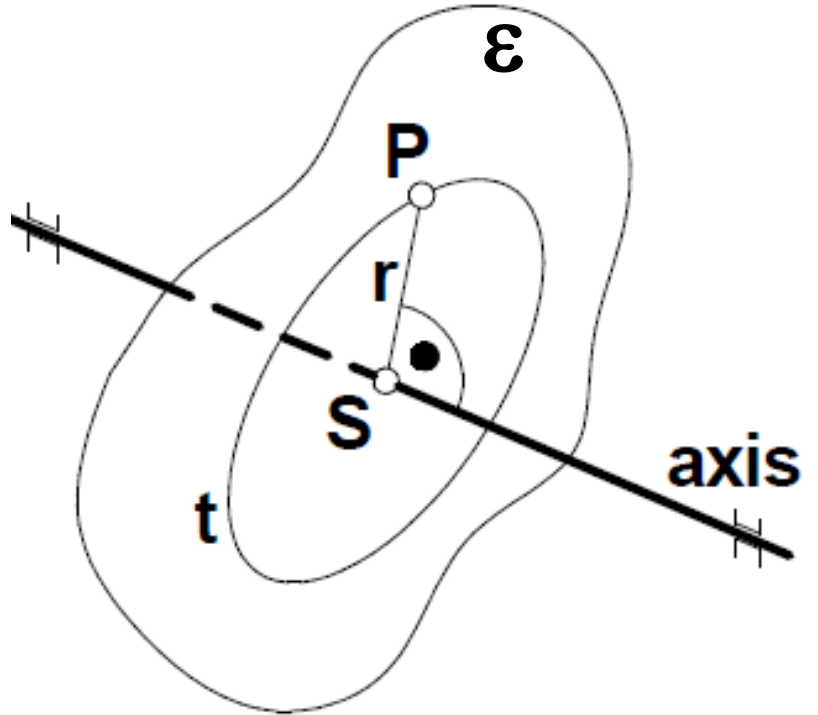


REVOLUTIONS

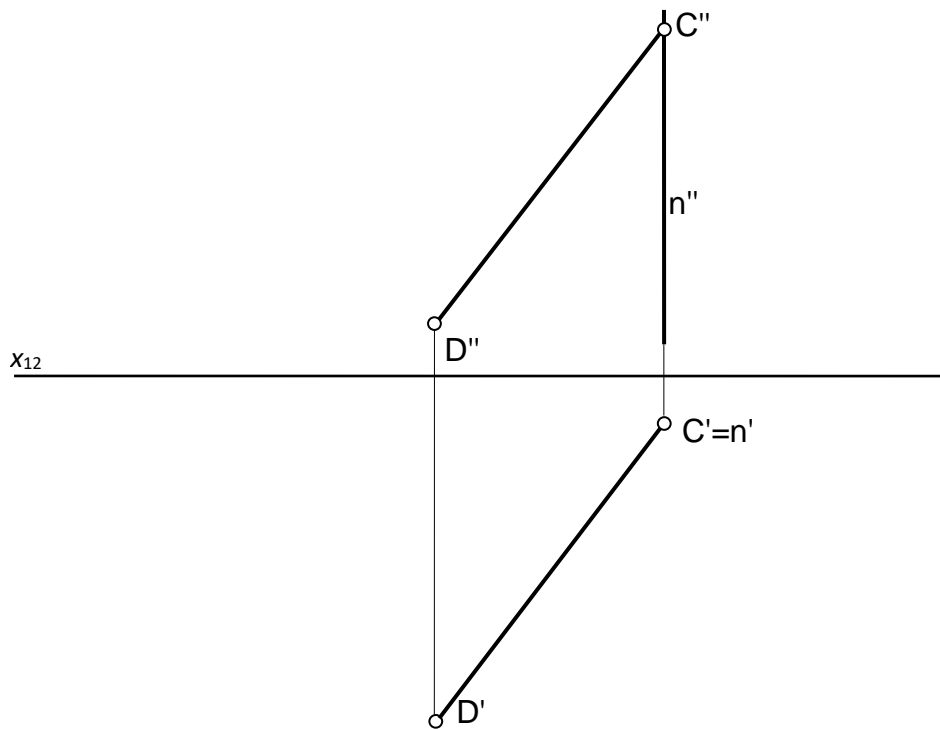
PROBLEMS					
38	39	40	41	42	43

REVOLUTIONS – GENERAL IDEAS

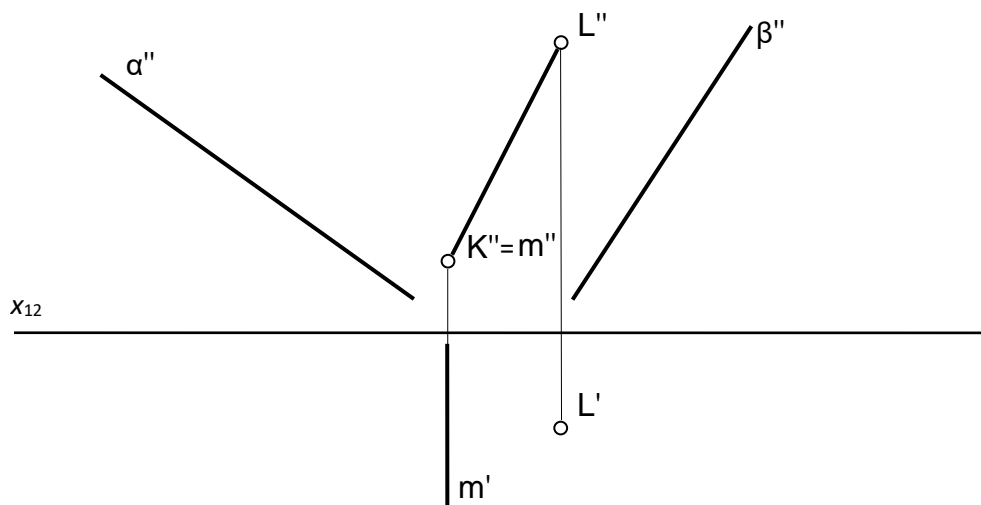
- 1. Object - P
- 2. Axis of revolution - axis
- 3. Plane of revolution - ε
 $\varepsilon \supset P$ and $\varepsilon \perp$ axis
- 4. Center of revolution - S
 $S = \varepsilon \cap$ axis
- 5. Radius of revolution - r
 $r = PS$
- 6. Object's trajectory - t



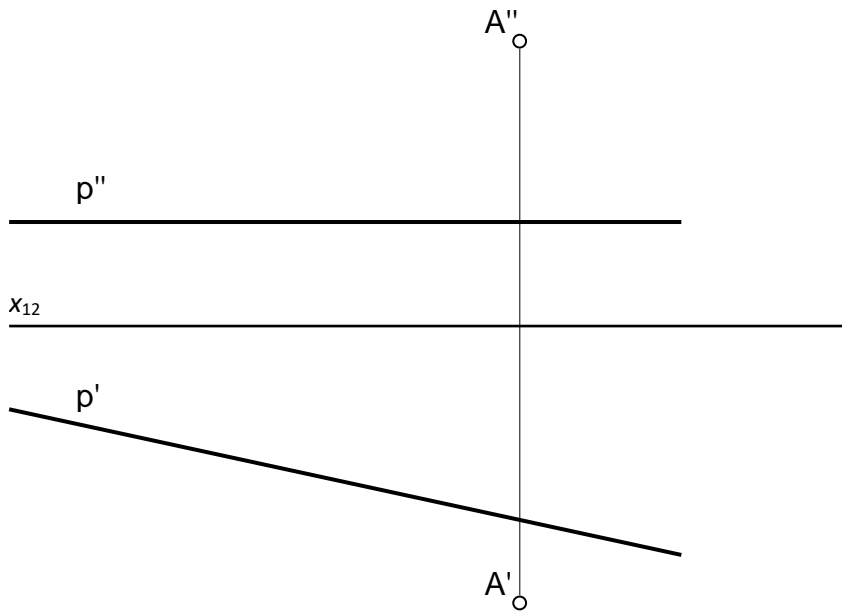
38. Revolve segment **CD**, which represents a line supporting a yacht mast **n**, to obtain its true length.



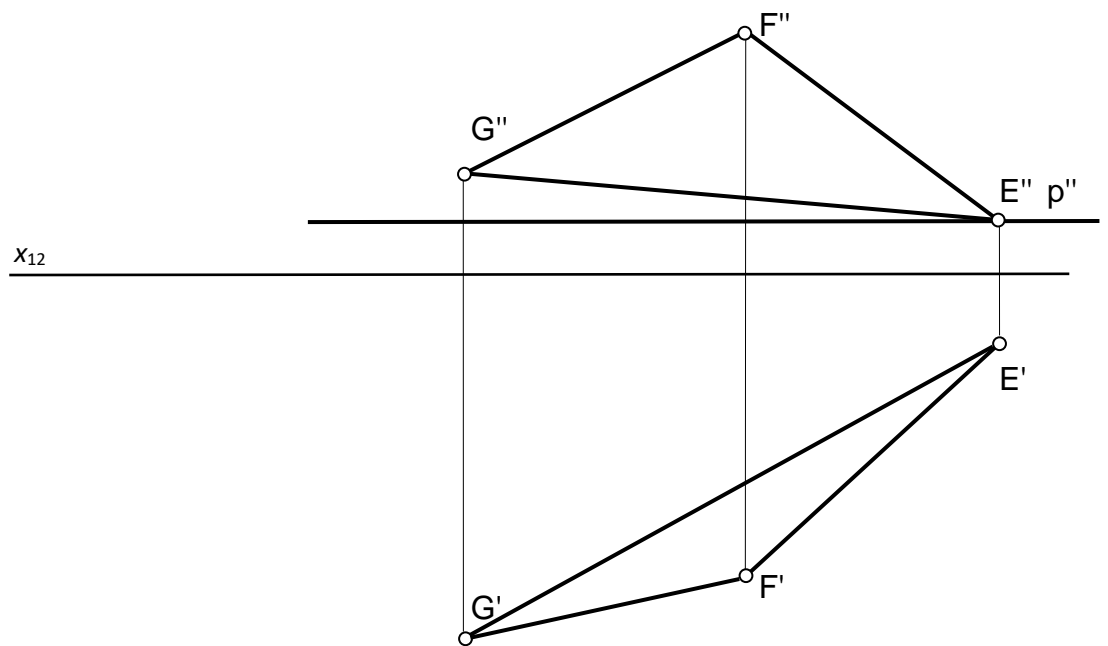
39. Determine the possible angle of revolution of lever **KL** around line **m** knowing that it may move between planes α and β .



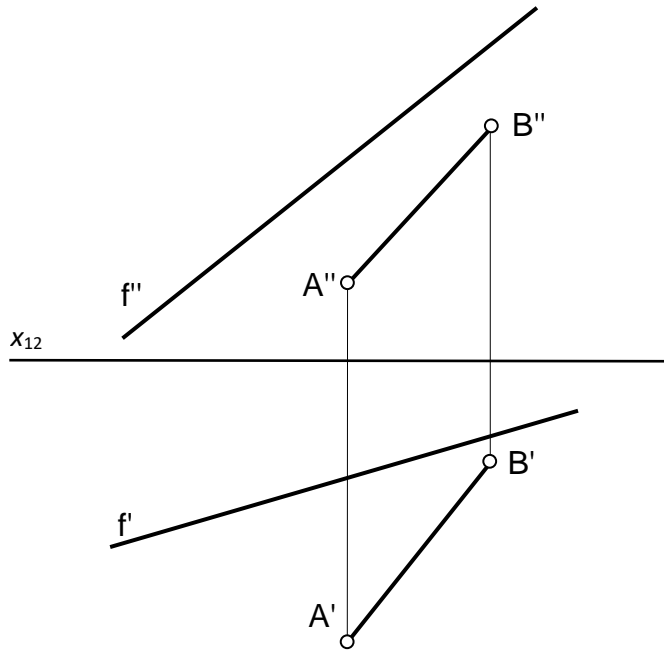
40. Point **A** is revolved around line **p**. Find points **A_{o1}** and **A_{o2}**, where the trajectory of point **A** intersects with π_1 projection plane. Find also points **A_{o3}** and **A_{o4}** where point **A** will be in the furthest distance from π_1 and π_2 projection planes.



41. Revolve cover **EFG** around line **p** until it touches π_1 projection plane. Assume that $p \in \alpha(E,F,G)$.



42. Find the placement of the edge of engine blade **AB** after the engine shaft **f** revolution about 60° .
Shaft revolves clockwise.



43. Revolve the triangle **ABC** around the line **n** so that, after revolution, it is parallel to the plane α . Select one solution.

