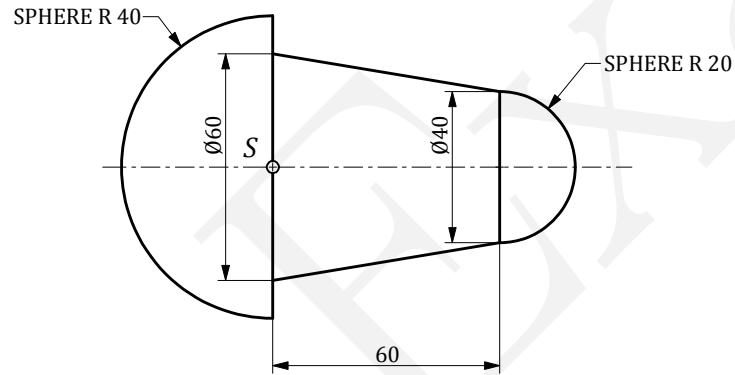


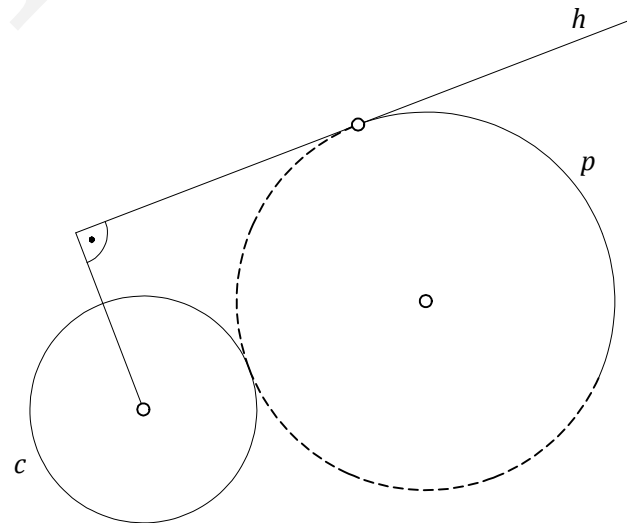
A	CONSTRUCTIVE GEOMETRY						E01A021
Surname							
First name							
Date	Examiner				Grade		
Score	1	2	3	4	5	6	Total

- Construct the rotary solid given by technical drawing in technical isometry. Point S lies at origin and axis of revolution of the solid is identical with y -axis of coordinate system.

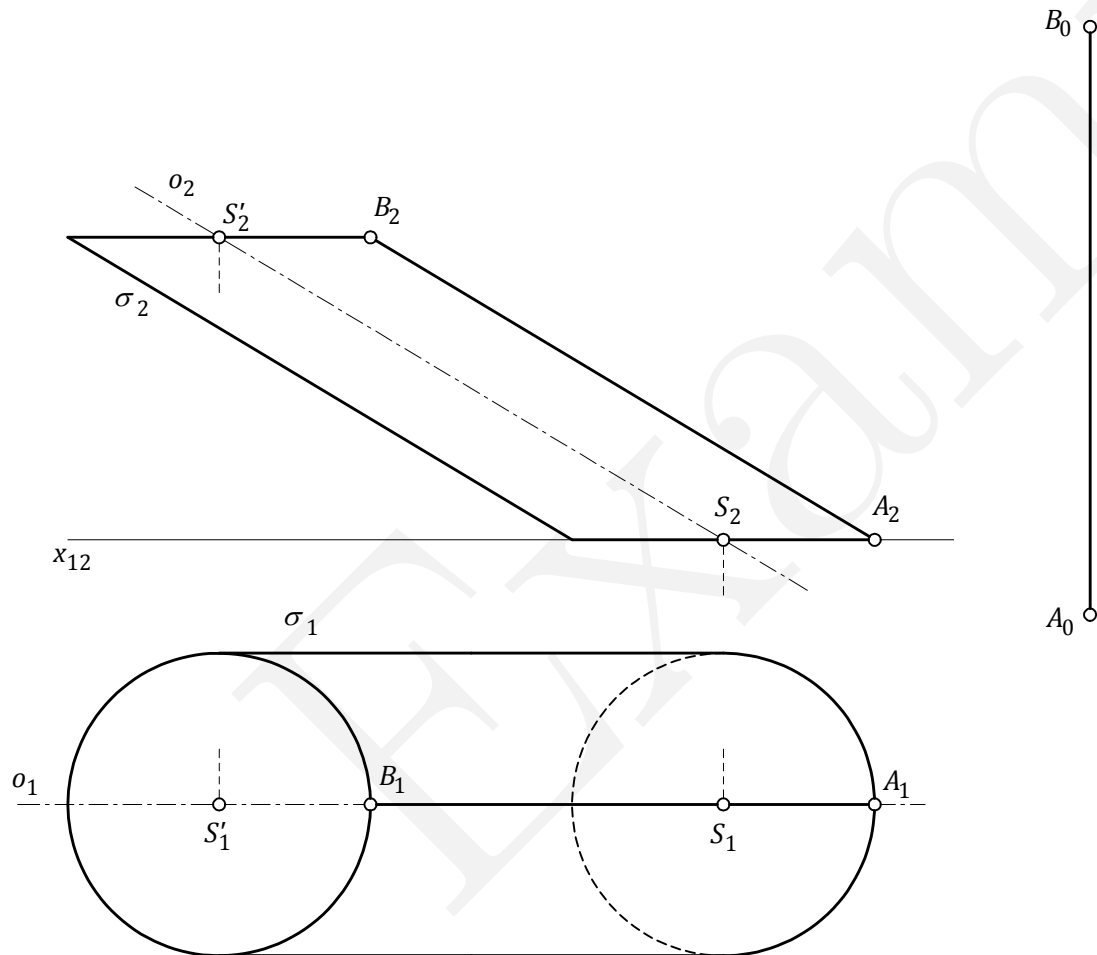


2. Determine analytically the solid drawn in example 1.

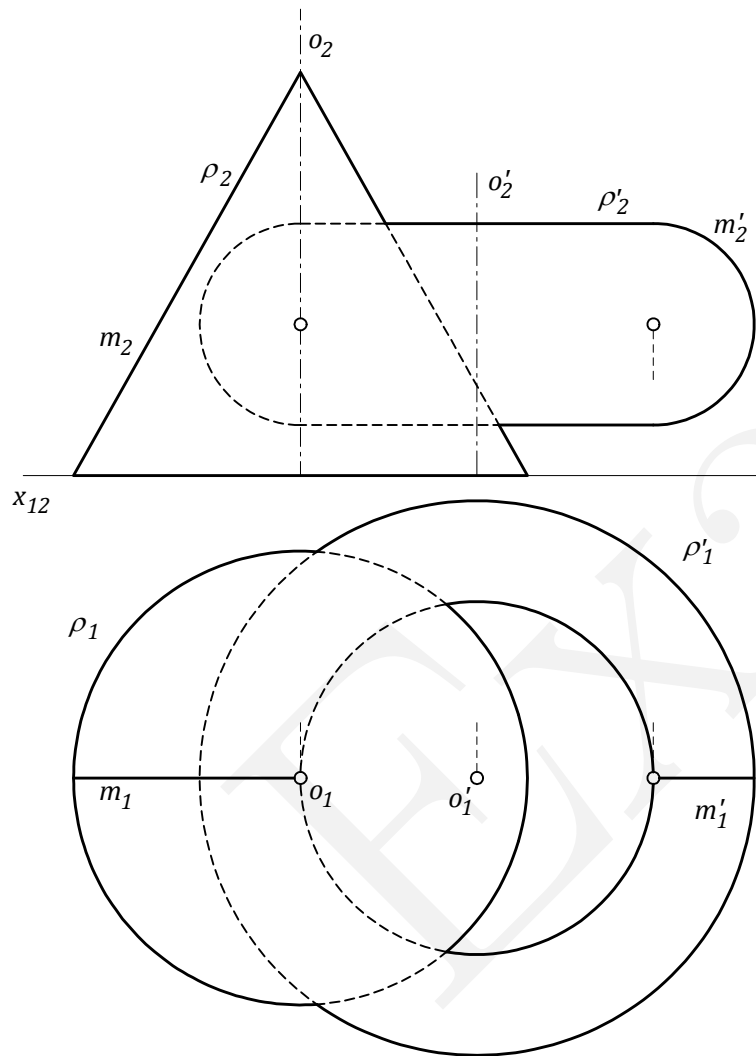
3. Involute motion is given by fixed centrode p and moving centrode h . Considering the continuous part of fixed centrode only, construct three new positions of moving circle c . Construct points of contact between circle c and its envelope (c) at all positions and sketch the envelope (c).



4. Construct the development of oblique cylinder σ .



5. Two surfaces of revolution $\sigma = (m, o)$ and $\sigma' = (m', o')$ are given. Using Monge projection, construct intersection curve $q = \sigma \cap \sigma'$. Indicate the visibility.



6. Helicoidal surface $\sigma = (k, o, v_0, \text{right-handed})$ is given. Using Monge projection, construct the principal meridian m of helicoidal surface σ .

