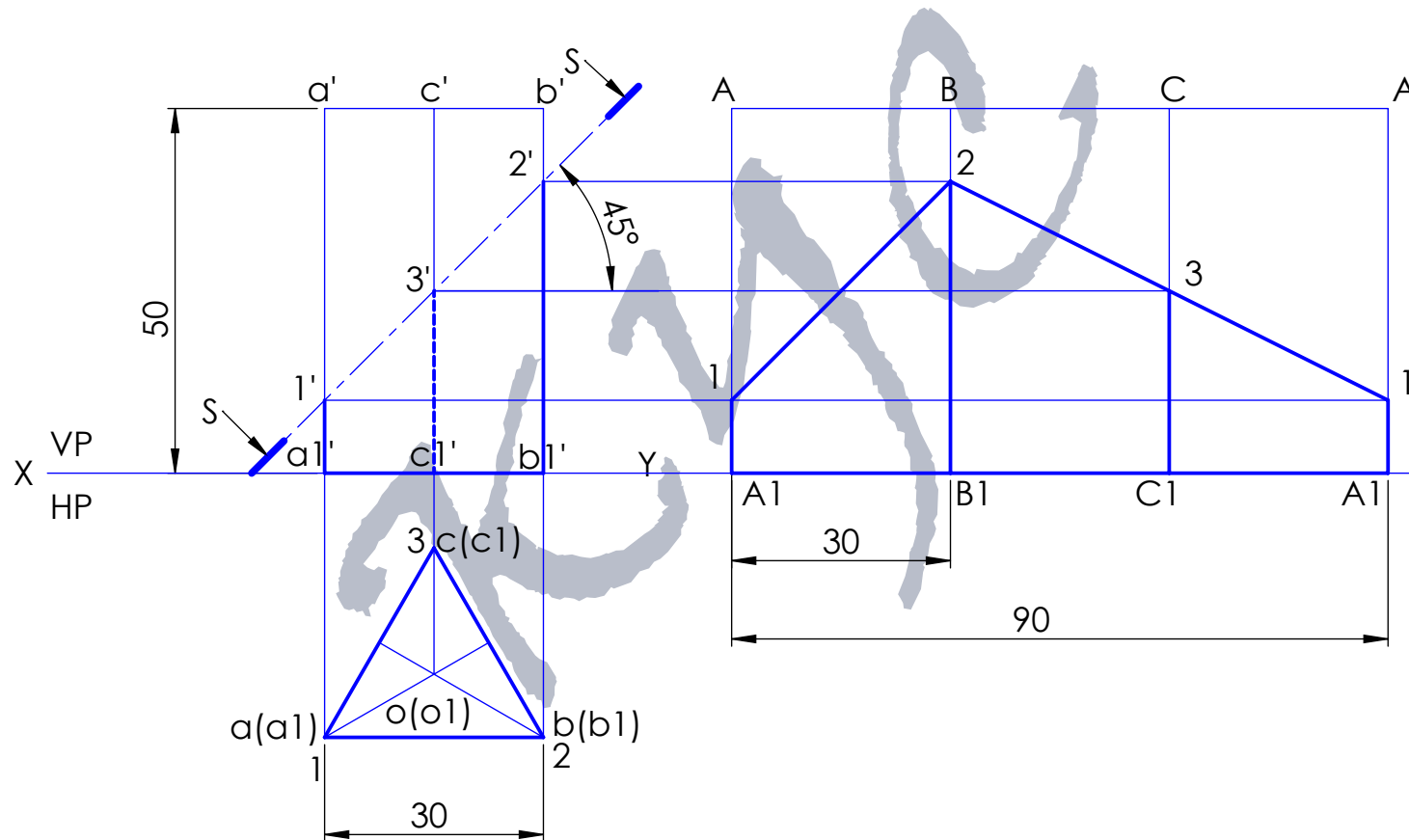


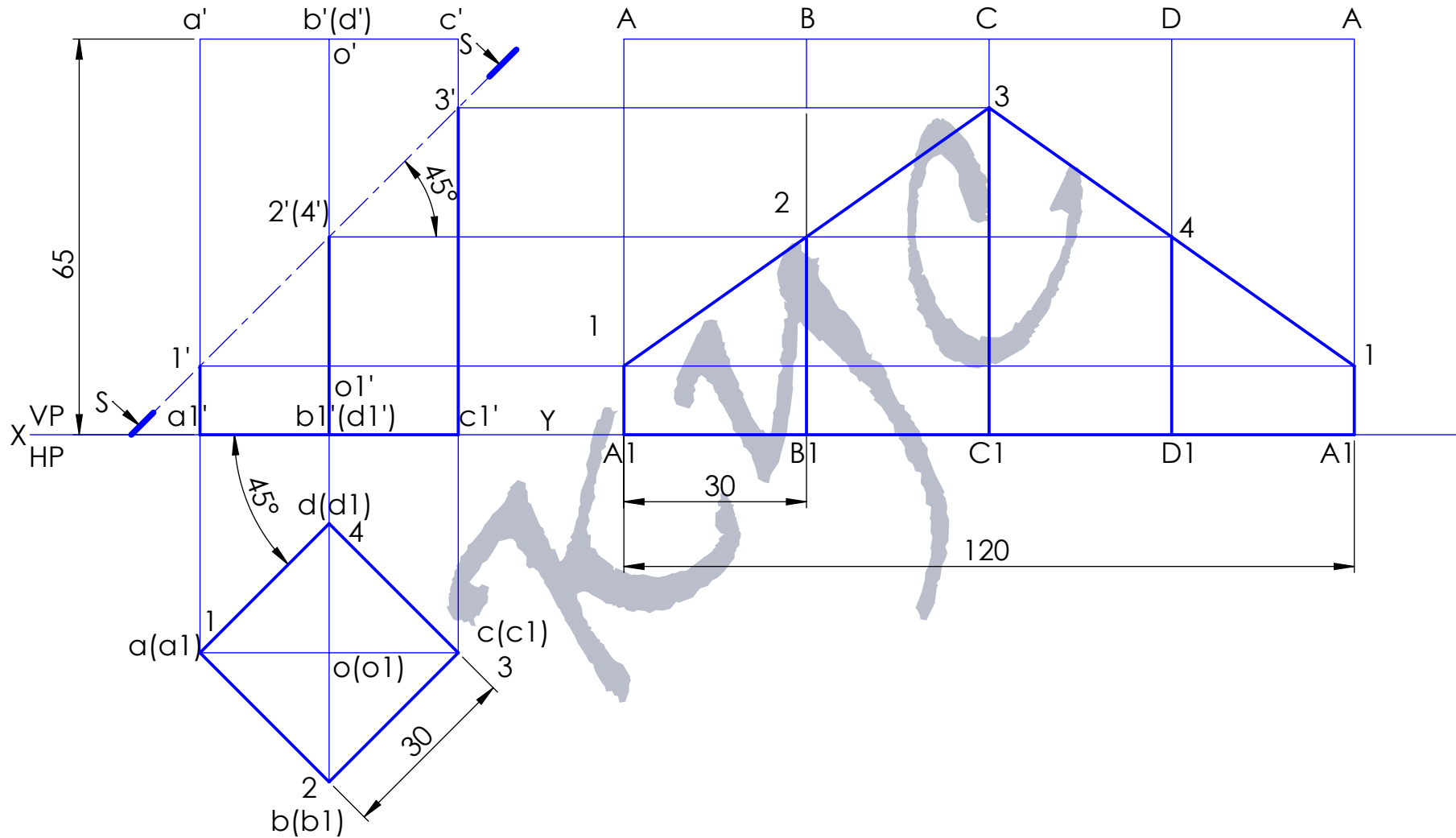
## DEVELOPMENT OF LATERAL SURFACES

- 10.1 A triangular prism of base edge 30 mm and height 50 mm rests on HP with its axis vertical and a base edge parallel to VP and farther from it. A section plane perpendicular to VP and inclined at  $45^\circ$  to HP bisects the axis of the prism. Draw the development of lateral surface of retained portion of the solid.



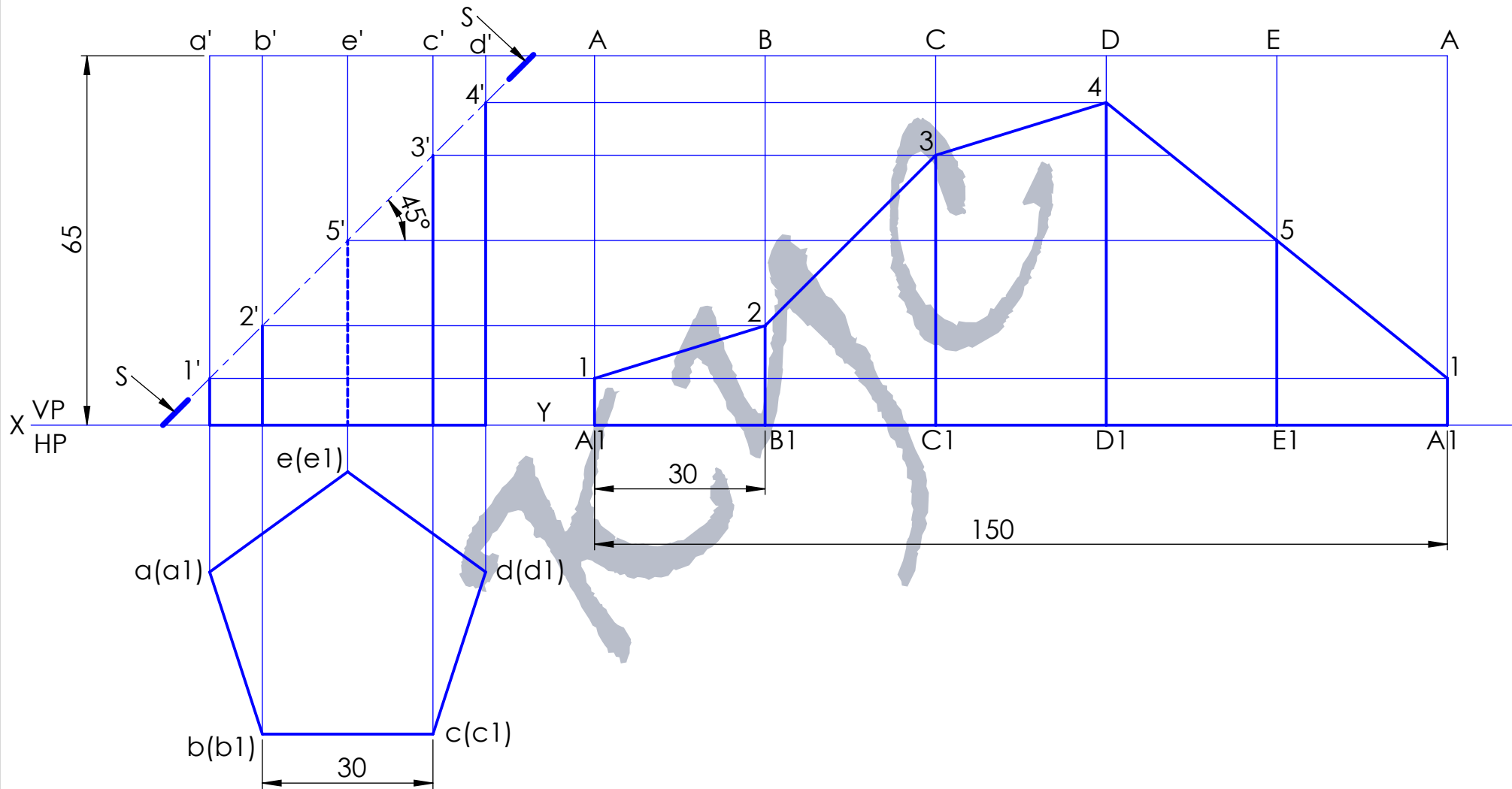
## DEVELOPMENT OF LATERAL SURFACES

- 10.2 A square prism of 30mm base edges and 65mm axis length rests on HP with its axis vertical and two of its lateral surfaces are equally inclined to VP. A section plane perpendicular to VP and inclined at  $45^\circ$  to HP bisects the axis of the prism. Draw the development of lateral surface of retained portion of the solid.



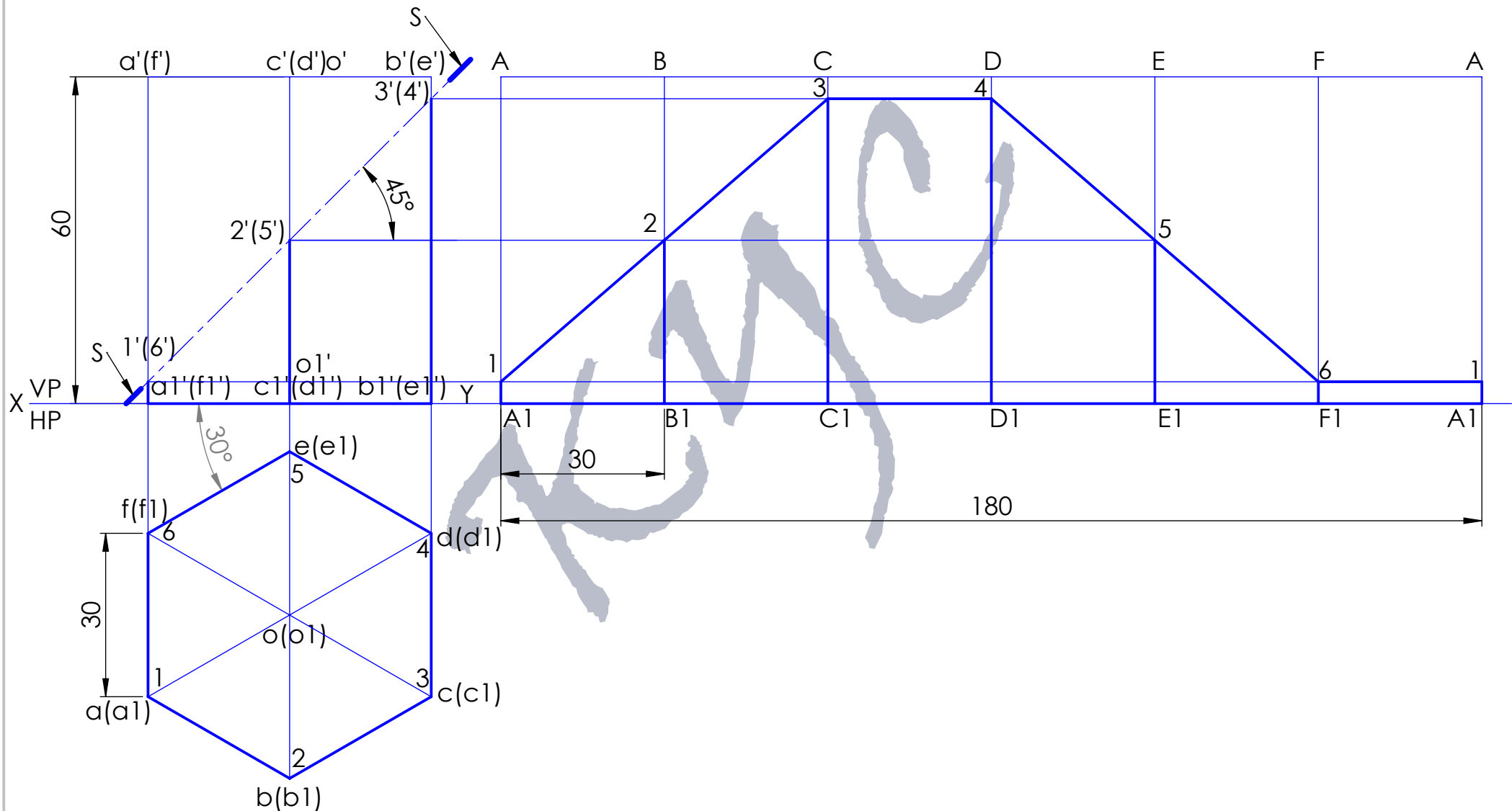
## DEVELOPMENT OF LATERAL SURFACES

- 10.3 A pentagonal prism of 30mm base edges and 65mm axis length rests on HP with two of its lateral surfaces are equally inclined to VP and nearer to it. A section plane perpendicular to VP and inclined at  $45^\circ$  to HP bisects the axis of the prism. Draw the development of lateral surface of retained portion of the solid.



## DEVELOPMENT OF LATERAL SURFACES

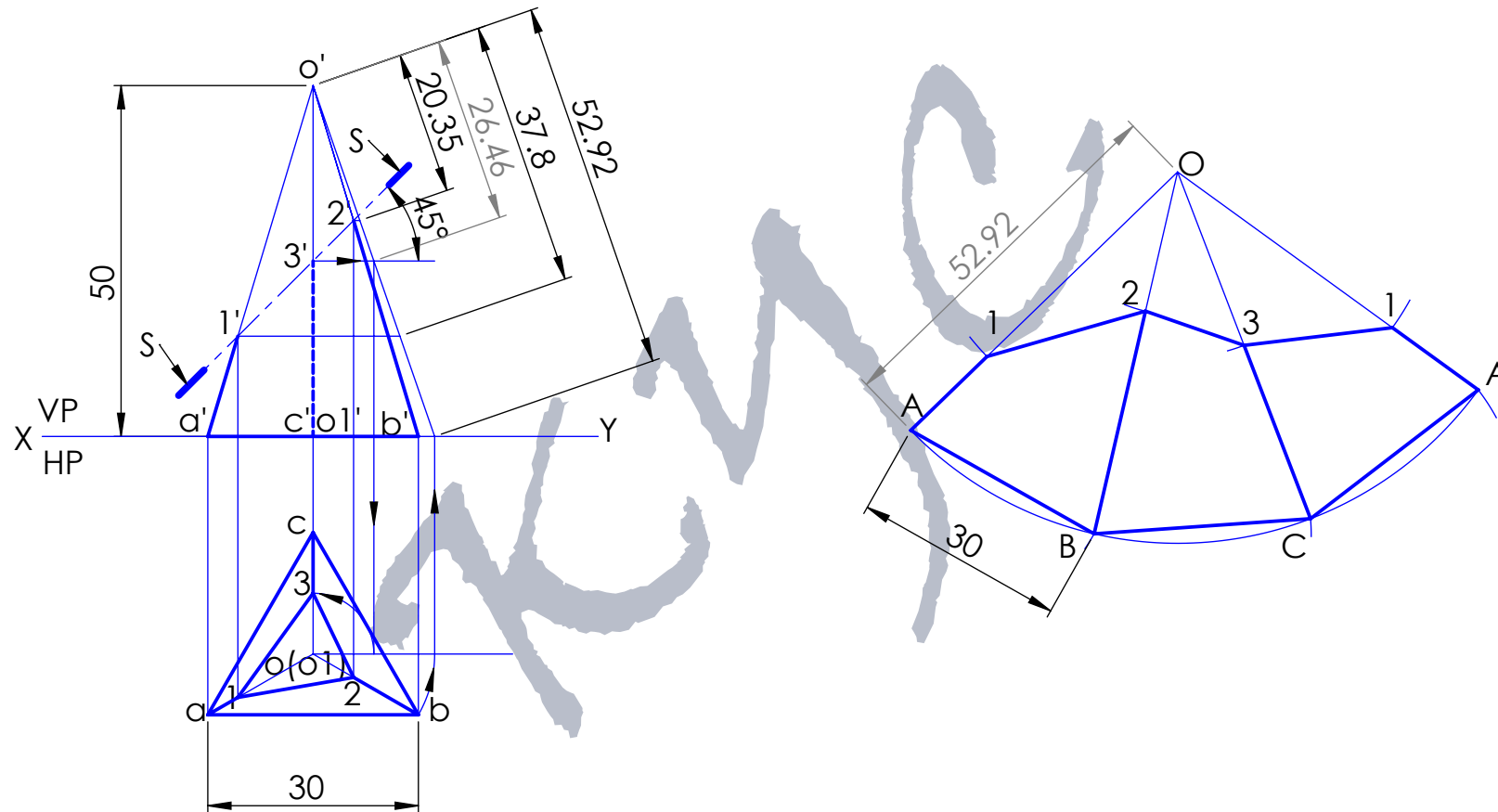
- 10.4 A hexagonal prism of 30mm base edges and 60mm axis length rests on HP with its axis vertical and one of its lateral surfaces is inclined at  $30^\circ$  to VP and nearer to it. A section plane perpendicular to VP and inclined at  $45^\circ$  to HP bisects the axis of the prism. Draw the development of lateral surface of retained portion of the solid.



## DEVELOPMENT OF LATERAL SURFACES

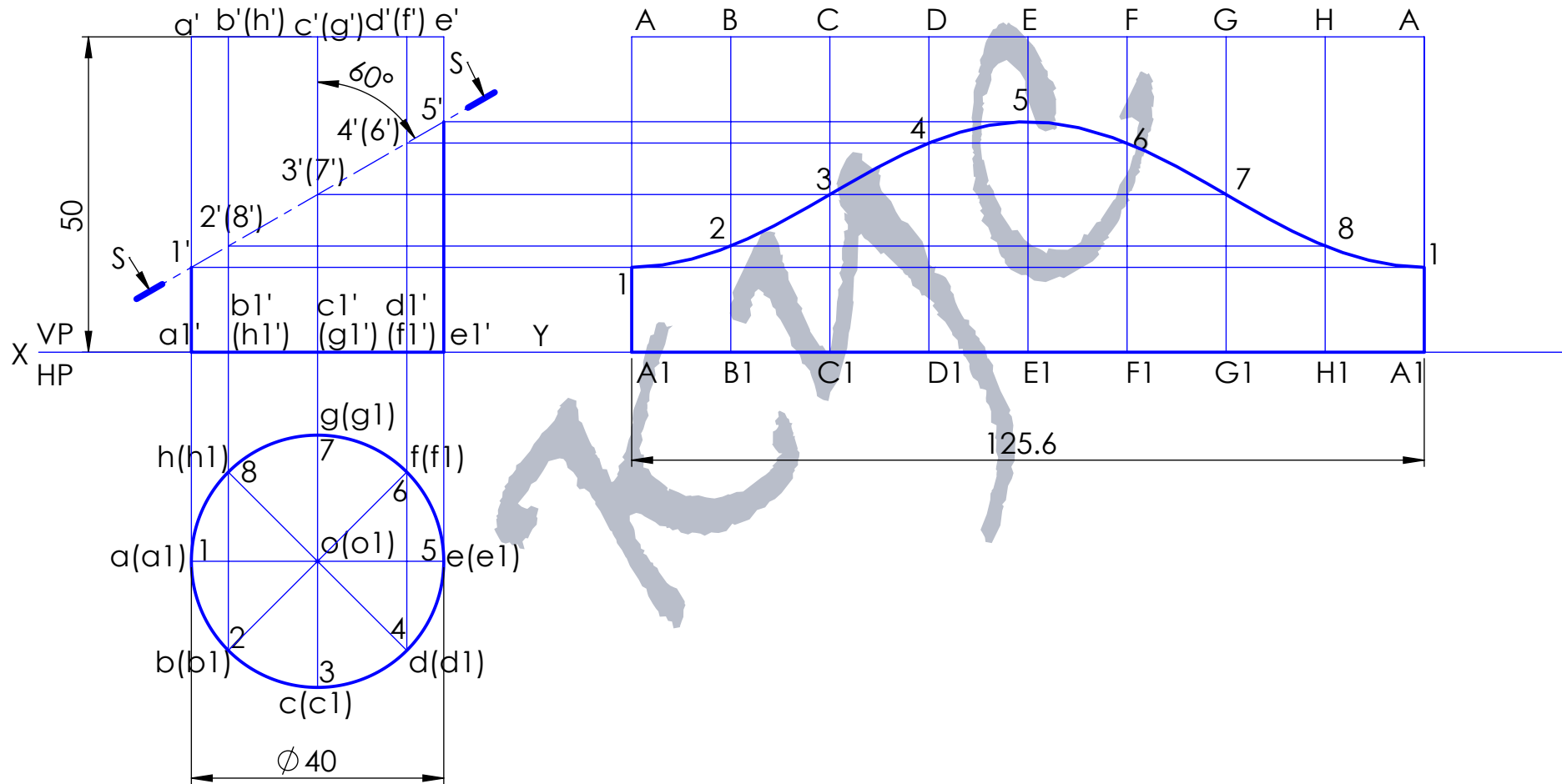
10.5

A triangular pyramid of base edge 30mm and height 50mm rests on HP with its axis vertical and two of its base edges equally inclined to VP and nearer to it. A section plane perpendicular to VP and inclined at  $45^\circ$  to HP bisects the axis of the pyramid. Draw the development of lateral surface of retained portion of the solid.



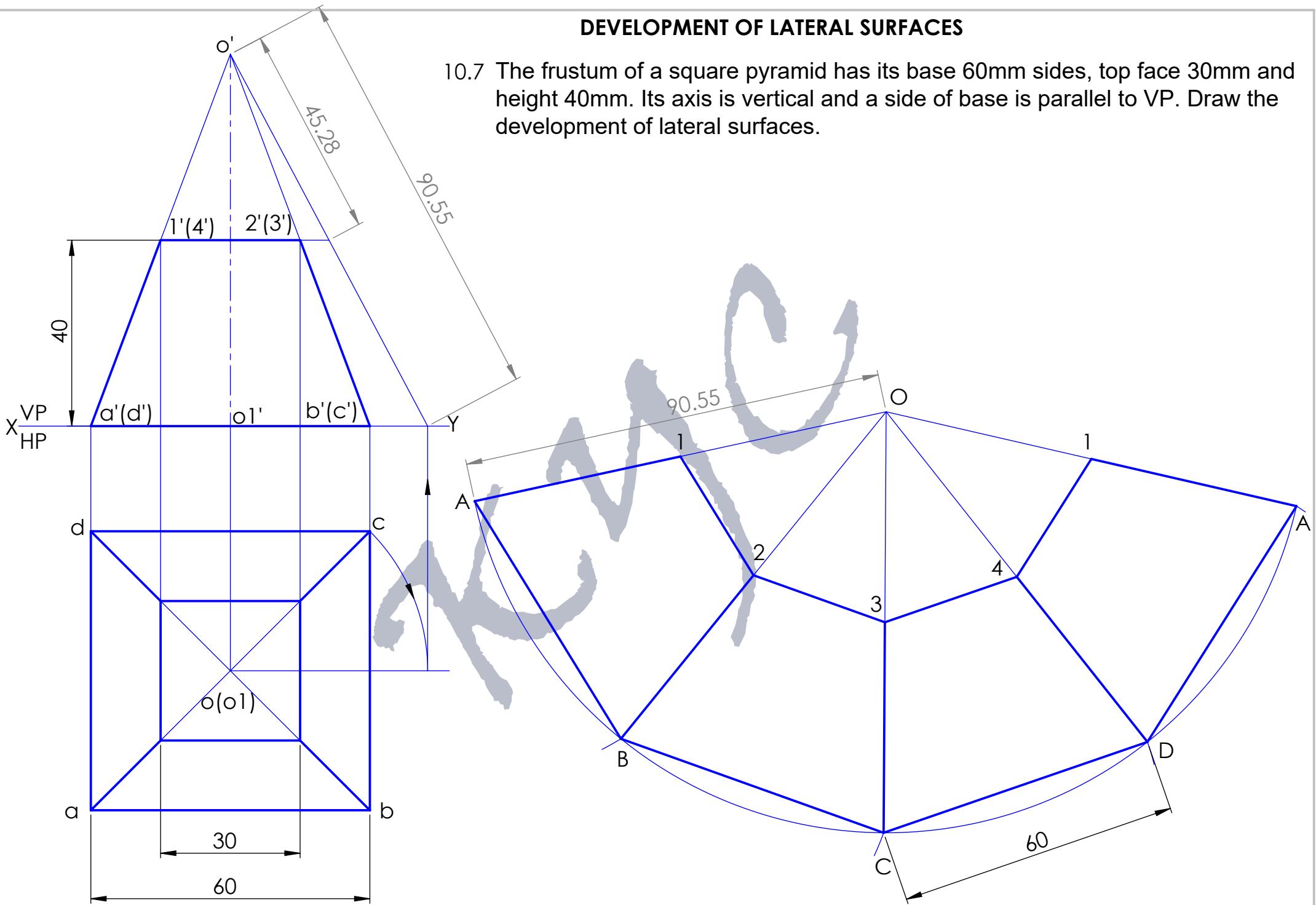
## DEVELOPMENT OF LATERAL SURFACES

- 10.6 Draw the development of the lateral surface of a truncated cylinder, 40mm diameter of base and height 50mm, if the truncated flat surface of the cylinder bisects the axis at  $60^\circ$  to it.



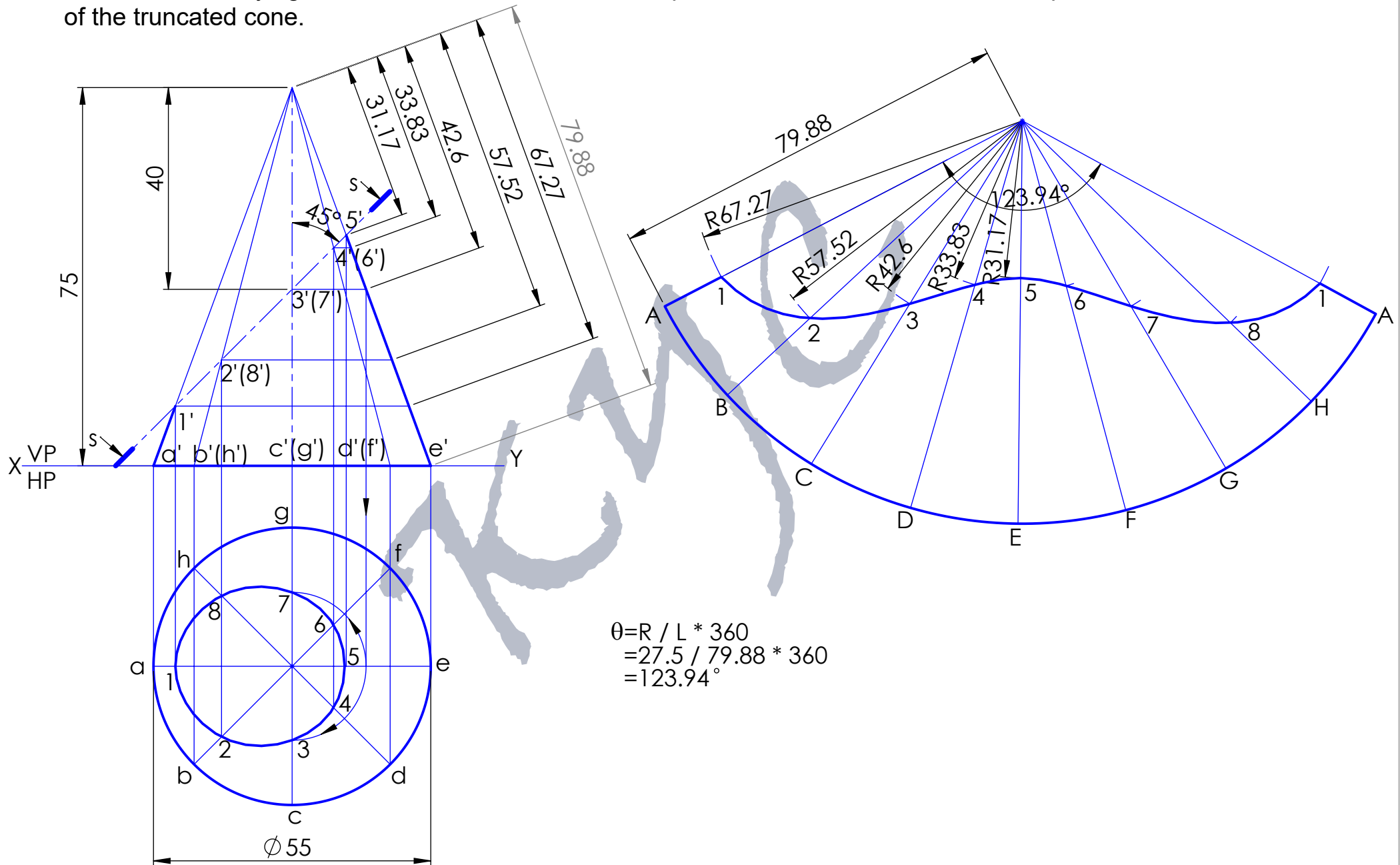
## DEVELOPMENT OF LATERAL SURFACES

10.7 The frustum of a square pyramid has its base 60mm sides, top face 30mm and height 40mm. Its axis is vertical and a side of base is parallel to VP. Draw the development of lateral surfaces.



## DEVELOPMENT OF LATERAL SURFACES

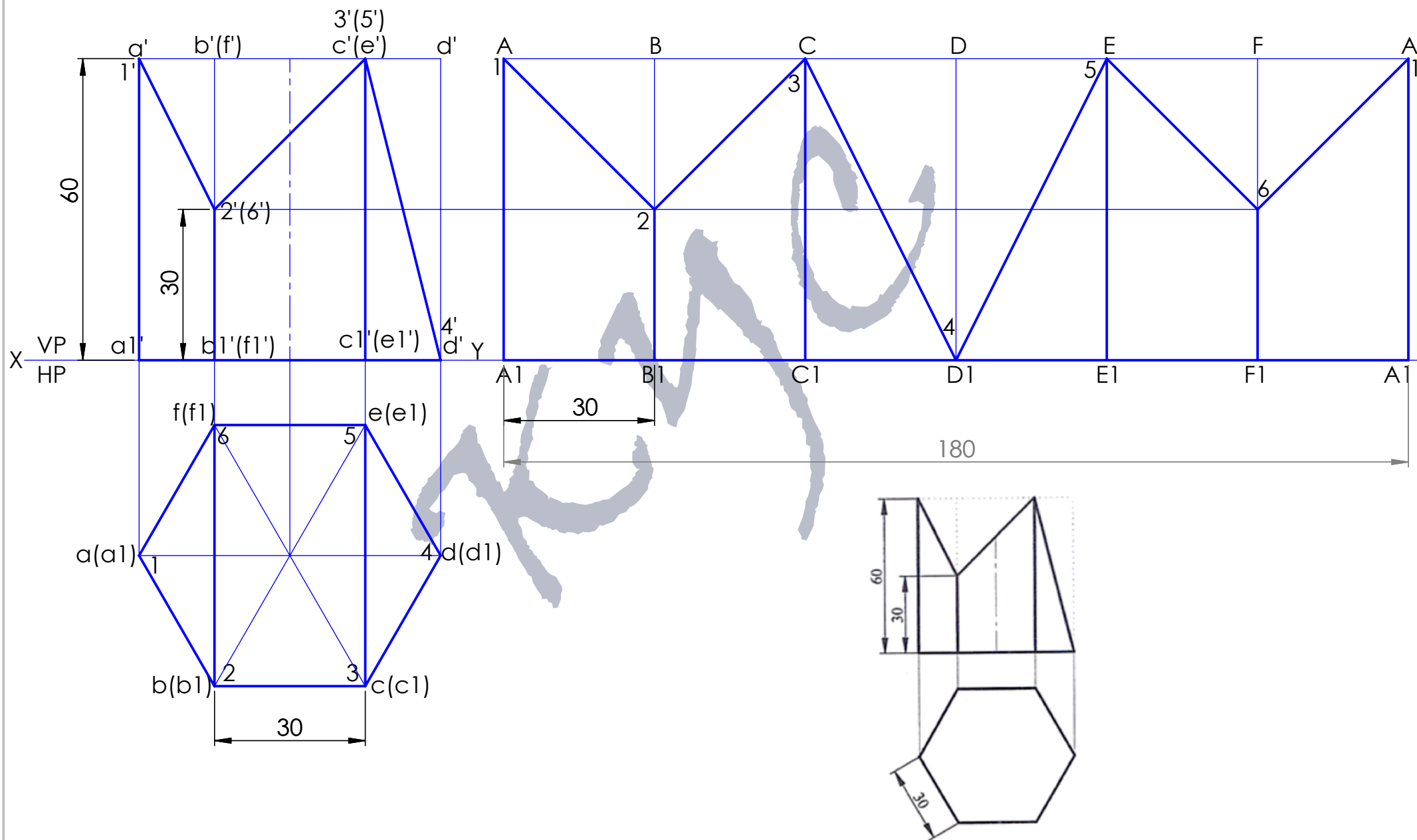
- 10.8 A right cone of 55mm base diameter and 75mm height stands on its base on HP. It is truncated with its surface inclined at  $45^\circ$  to the axis lying at a distance of 40mm from the apex of the cone. Obtain the development of the lateral surface of the truncated cone.





## DEVELOPMENT OF LATERAL SURFACES

- 10.9 A hexagonal prism side of base 30mm and height 60mm is cut as shown in the fig. Draw the development of the lateral surface of the prism.



## DEVELOPMENT OF LATERAL SURFACES

10.10 Draw the development of the lateral surface of the pyramid shown in fig.

