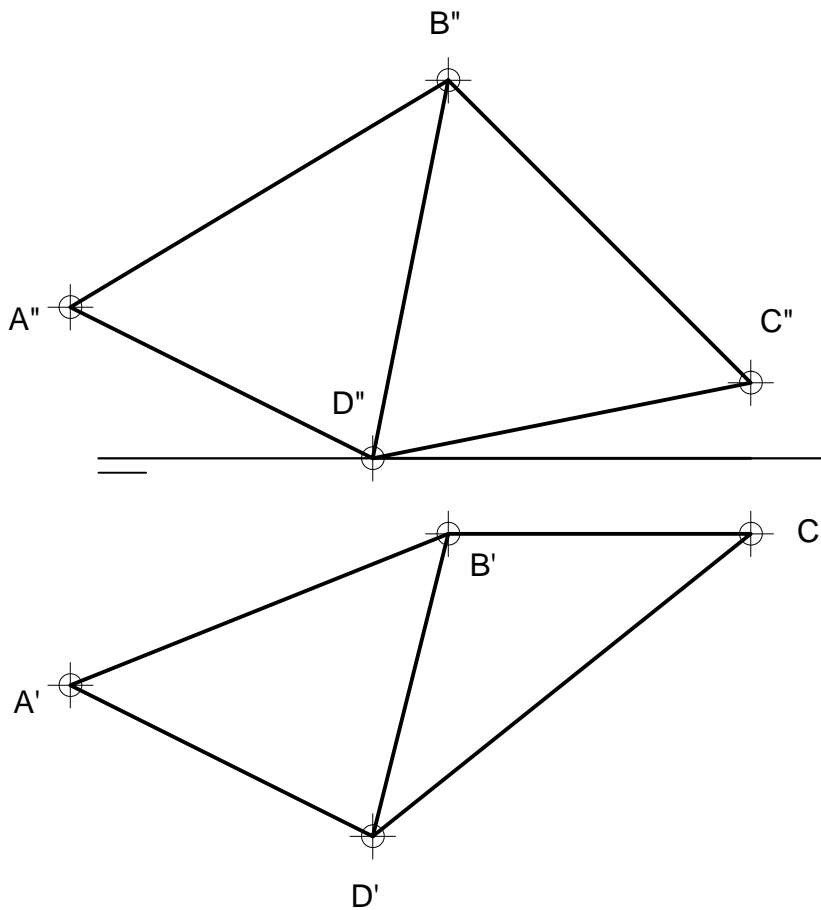


EXERCISE 1

Let $A(13,3,2)$, $B(8,1,5)$, $C(4,1,1)$ and $D(9,5,0)$ be four points, being ABC and BDC two planes that define a part of a roof.

- Find a line in the plane ABD , parallel to the plane XOY and being the height of the points of this line $z=3$.
- Define the trajectory of a drop that leaves from the midpoint of the segment BC .

ABD and BDC are two planes that define a roof. Draw a horizontal line with an elevation of 3 that is located in the plane ABD . Define the trajectory of a drop that leaves from the midpoint of the segment BC .



EXERCISE 2

Let $A(9,5,0)$ and $B(6,3,3)$ be two points included in the line of intersection of two symmetric sheets of concrete.

- Define the previous planes being their slope 45° .
- Calculate the intersection of these two planes with a vertical plane that contains the line that passes through the points $(6,3,z)$ and $(4,5,z)$, and the intersection with the horizontal plane.

AB is the intersection of two symmetric sheets of concrete. Draw these two planes and their intersections with a vertical plane that contains the line "p", and the intersection with the horizontal plane. Data: the slope of the planes = 45° .

