

The diagram illustrates the intersection of two planes, α_1 and α_2 , which are represented by two horizontal lines. The intersection line is determined by the intersection of two lines, $A'B'$ and $A''B''$, which are the projections of the intersection line onto the planes. The intersection point is labeled A and B .

The construction steps are as follows:

- Draw two horizontal lines representing the planes α_1 and α_2 .
- Choose a point A' on line α_1 and a point B' on line α_2 . Draw a line segment $A'B'$.
- Choose a point A'' on line α_1 and a point B'' on line α_2 . Draw a line segment $A''B''$.
- The intersection of lines $A'B'$ and $A''B''$ is the intersection point of the planes, labeled A and B .

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