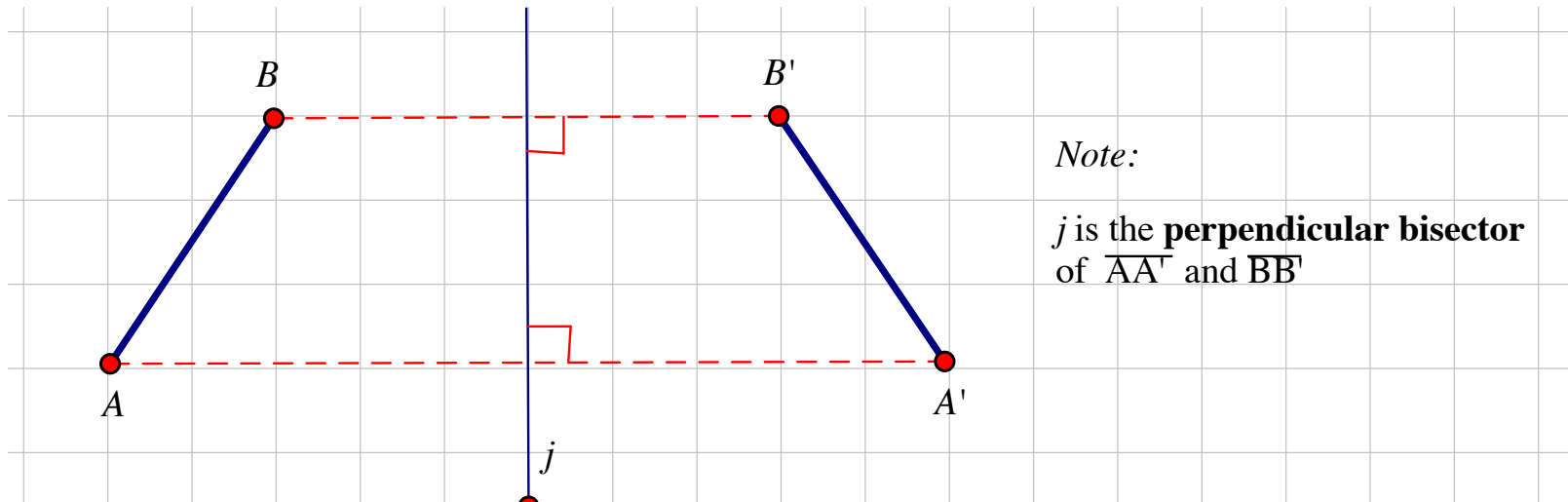


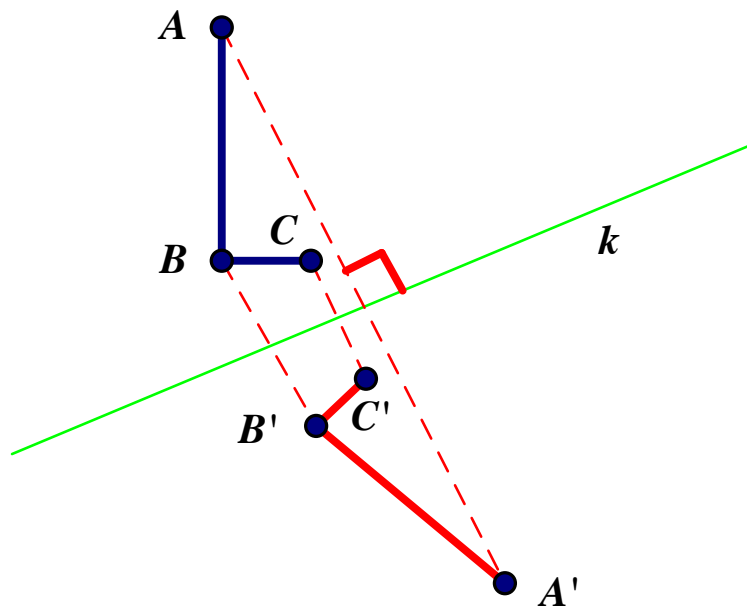
Reflection

We all have experienced a reflection, look in the mirror. Pretty simple, right? We will formalize that definition this way.

A reflection in some line j maps every point P into a point P' , such that:

1. If P does not lie on j , then j is the perpendicular bisector of $\overline{PP'}$
2. If P lies on j , then P' is the same point as P .





By definition, line k is the perpendicular bisector of AA' , BB' and CC' .

That means when we draw our lines they must be perpendicular.

And the distance from point A to line k = the distance from point A' to line k .