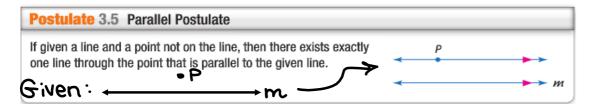
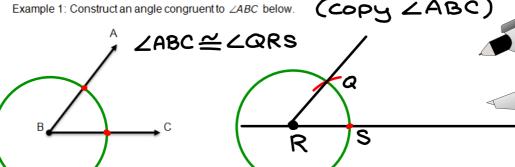
In section 3-5, we talked a bit about the Parallel Postulate:



This postulate implies that if we are given a line and a point that is not on that line, then we may construct exactly one line through that point that is parallel to the given line. Learning how to do this is the purpose of today's lesson.

Before we talk about this new construction, we should review constructing congruent angles.



step 1: Use a straight edge to draw a line. This line will represent the side of the angle that corresponds to ray \overline{BC} .

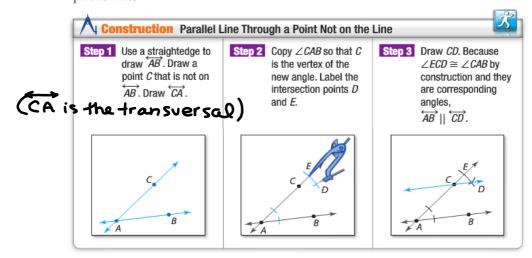
step 2: With the compass tip on B, draw a circle around B. Mark a point on the new line and draw the

step 3: Use the compass to measure the opening of ∠ABC on the circle. Mark that distance on the second circle.

Now, **WHY** are we practicing constructing congruent angles? We are going to be constructing parallel lines through a point not on the line by constructing congruent CORRESPONDING ANGLES, because if two lines are cut by a transversal forming congruent corresponding angles, then the two lines are parallel (*Converse of Corresponding Angles Postulate*).

https://www.mathopenref.com/constparallel.html

The Converse of the Corresponding Angles Postulate can be used to construct parallel lines.



Let's try this:

