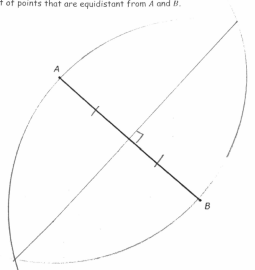
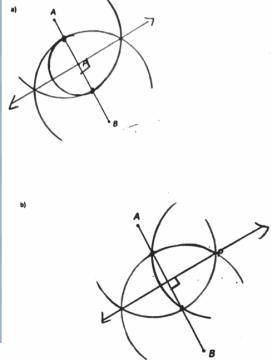


GCC: Constructions - Constructing Parallel Lines
 Homework: Complete Packet 2.7

1. Given line segment AB , using a compass and straightedge, construct the set of points that are equidistant from A and B .



2. For each of the following, construct a line perpendicular to segment AB that goes through point P .



What figure did you end up constructing? Explain.
Perpendicular Bisector. Each point on that line is equidistant to points A & B.

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Do Now:
 Find the measure of an angle that is 20° less than 4 times the measure of its supplement.

let $x = \text{an } \angle \text{ measure}$
 $4x - 20 = \text{the } \angle \text{ supplement}$

$$4x - 20 + x = 180$$

$$5x = 200$$

$$x = 40$$

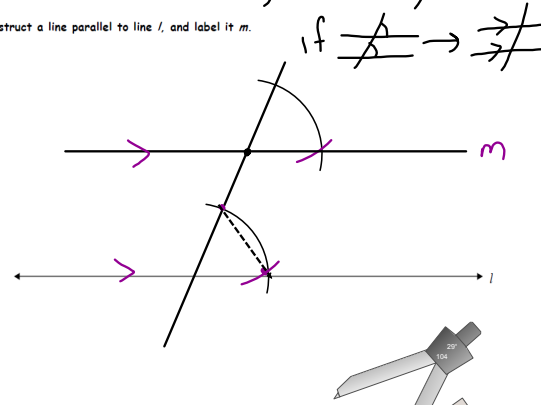
$$40^\circ$$

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Constructing a Parallel Line:

- Pick a point for your new line to pass through.
- Construct a transversal line.
- Create a pair of corresponding angles.

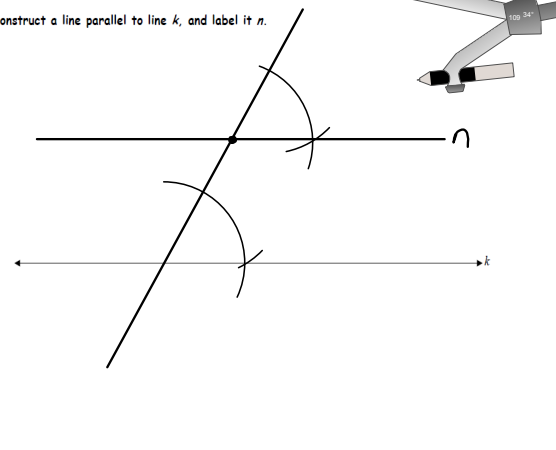
1. Construct a line parallel to line l , and label it m .



if $\begin{matrix} \nearrow \\ \searrow \end{matrix} \rightarrow \begin{matrix} \nearrow \\ \searrow \end{matrix}$

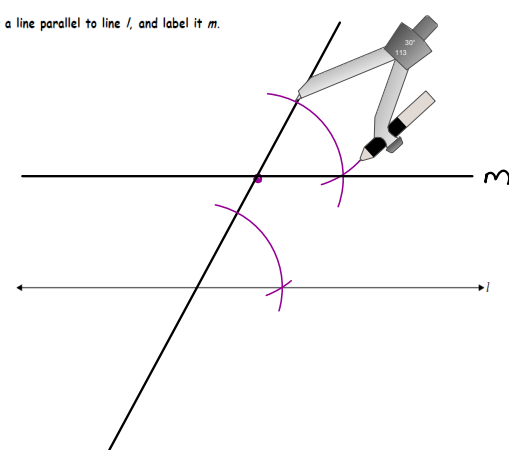
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2. Construct a line parallel to line k , and label it n .



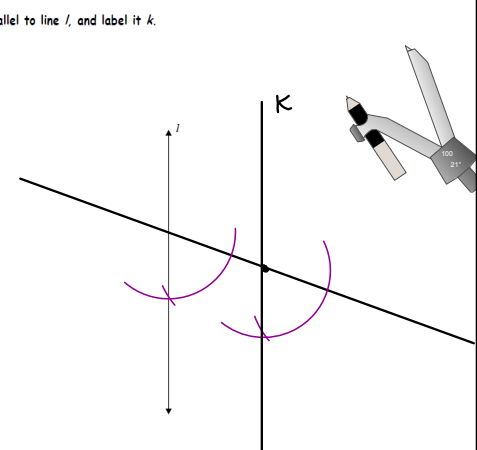
Sep 29-8:04 AM

3. Construct a line parallel to line l , and label it m .



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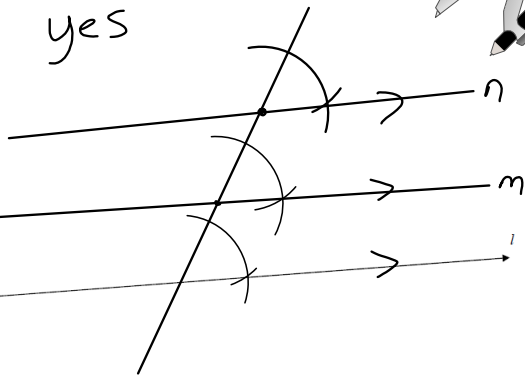
4. Construct a line parallel to line l , and label it k .



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5. Construct a line parallel to line l , and label it m . Then construct another line parallel to m , and label it n . Is line l parallel to line n ?

yes



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