

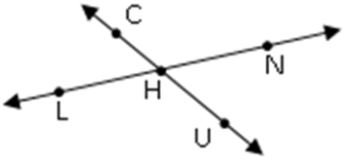
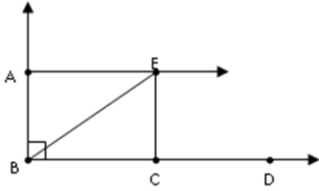
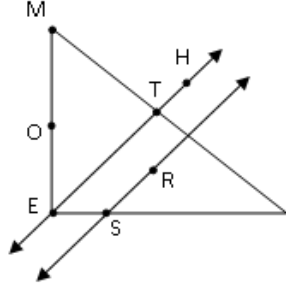
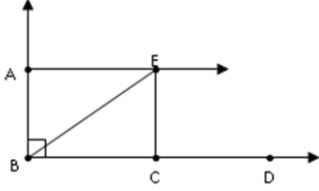
2-4A: Assumptions and Justifications

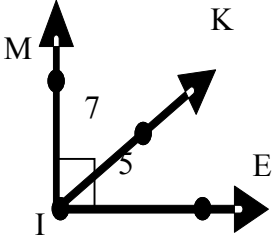
“I WILL ...

...make assumptions and justifications through statements.”

I. Definitions

- A. Assumptions are “a thing that is accepted as true or as certain to happen, without proof”
- B. Justifications are “something (such as a fact or circumstance) that shows an action to be reasonable or necessary”

<p>Ex 1: List the facts you can assume from it.</p> 	<p>Ex 2: Given the image, determine “$m\angle AEB$ is acute” is a true or false statement.</p> 
<p>Ex 3: Given the image, determine “$\overline{ET} \parallel \overline{SR}$” is true or false.</p> 	<p>Your Turn: Given the image, determine “$m\angle BEC$ and $m\angle ECB$ are supplementary,” “C is the midpoint of \overline{BD}” and “$\angle ABE$ and $\angle EBC$” is a true or false statement.</p> 

<p>Ex 4: For each statement and its next logical conclusion, tell which definition, postulate, or theorem gives the justification.</p> <p>Given: $\overline{AM} \cong \overline{WU}$ Conclusion: $AM = WU$</p>	<p>Ex 5: For each statement and its next logical conclusion, tell which definition, postulate, or theorem gives the justification.</p> <p>Given: E is the midpoint of \overline{BD} Conclusion $\overline{BE} \cong \overline{ED}$</p>
<p>Ex 6: For each statement and its next logical conclusion, tell which definition, postulate, or theorem gives the justification.</p> <p>Given: A is in the interior of $m\angle GLD$ Conclusion: $m\angle GLA + m\angle ALD = m\angle GLD$</p>	<p>Your Turn: For each statement and its next logical conclusion, tell which definition, postulate, or theorem gives the justification.</p> <p>Given: $\angle DAY$ and $\angle YAK$ are a linear pair Conclusion: $\angle DAY$ and $\angle YAK$ are supplementary</p>
<p>Ex 7: Use the information to establish the conclusion and justification, Given: $\overline{TO} \cong \overline{AN}$</p>	<p>Ex 8: Use the information to establish the conclusion and justification, Given: $CO = OL$</p>
<p>Ex 9: Use the information to establish the conclusion and justification, Given the diagram below.</p> 	<p>Your Turn: Use the information to establish the conclusion and justification, Given: A is between J and M.</p>