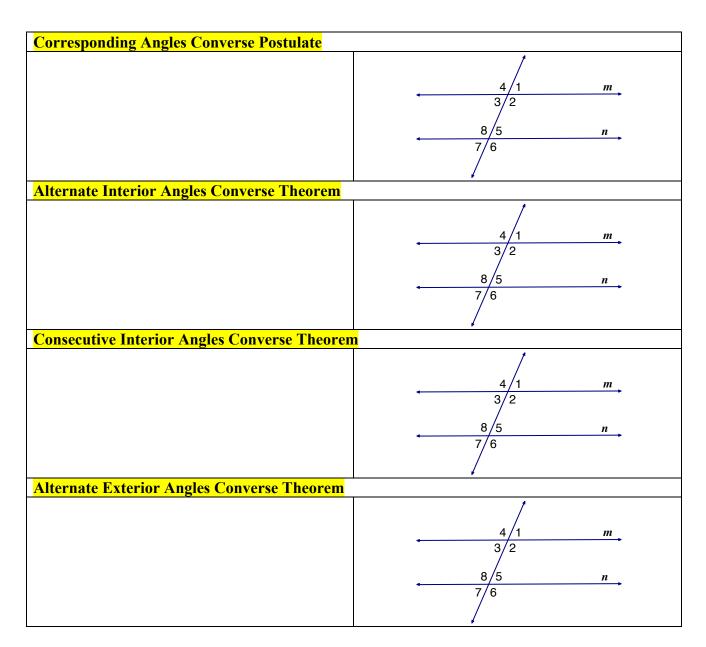
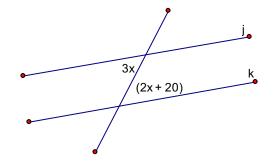
3-3 Proving Lines Parallel

<u>Recall</u>: What is the *converse* of the conditional statement "If today is September 23 then it is the first day of autumn"?

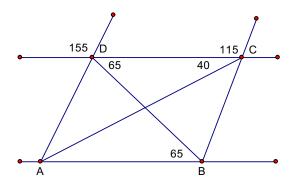


1) Find the value of x that makes $j \parallel k$.

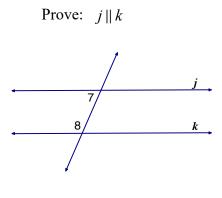


- 2) Use the figure to the right to answer the following questions. Justify your answer.
 - a) Is $\overrightarrow{AB} \parallel \overrightarrow{DC}$?

b) Is $\overrightarrow{BC} \parallel \overrightarrow{AD}$?

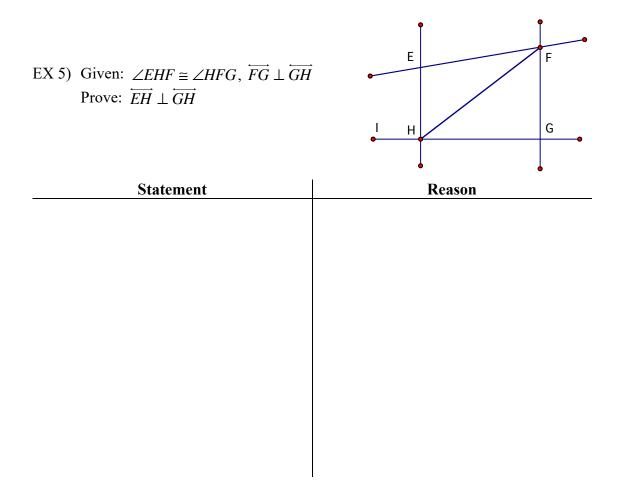


3) Given $m \angle 7 = 125^{\circ}$, $m \angle 8 = 55^{\circ}$



Statement	Reason
1.	1.
2.	2.
3.	3.
4.	4.

Statement	Reason
1.	1.
2.	2.
3.	3.
4.	4.
5.	5.



EX 6) Does the information given in the diagram allow you to conclude that $a \parallel b$? <u>Explain</u>.

