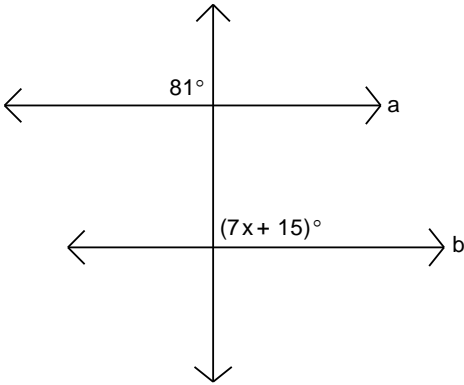


Geometry 3.1-3.3 Review Homework

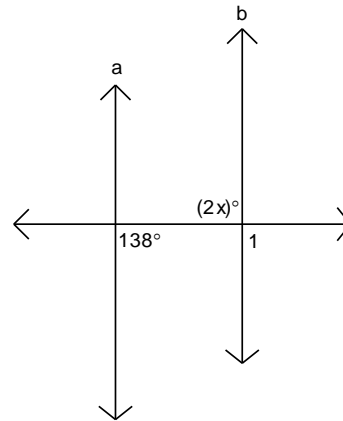
Name: _____

For questions 1 – 3, assume $a \parallel b$.

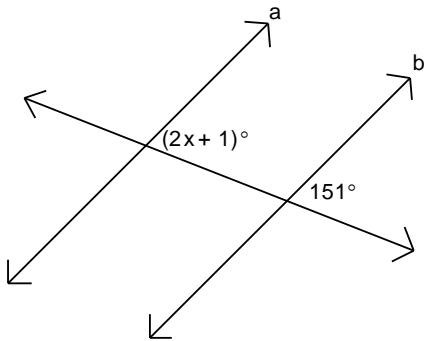
1. Solve for x. _____



2. Find x. _____



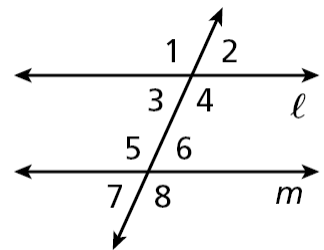
3. Solve for x. _____



Use the diagram to the right for #4-5. Determine whether or not line l is parallel to line m .

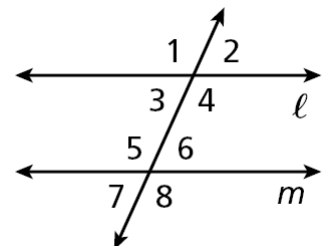
- 4.) Given: $m\angle 1 = (15x + 22)^\circ$
 $m\angle 4 = (19x - 10)^\circ$
 $m\angle 8 = (10x + 62)^\circ$

Is $l \parallel m$? Explain why or why not.



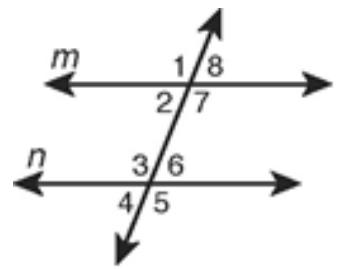
- 5.) Given: $m\angle 6 = (5x + 3)^\circ$
 $m\angle 5 = (8x - 5)^\circ$
 $m\angle 3 = (3x + 29)^\circ$

Is $l \parallel m$? Explain why or why not.



6.) Given: $m \parallel n$

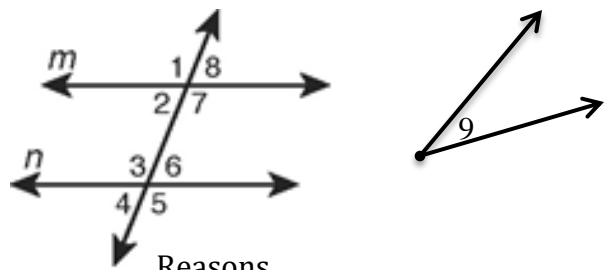
Prove: $\angle 2 \cong \angle 4$



Statements	Reasons

7.) Given: $\angle 6$ supplementary to $\angle 9$
 $\angle 9 \cong \angle 7$

Prove: $m \parallel n$



Statements	Reasons

For 8 and 9, given line a is parallel to line b, find the value of x.

