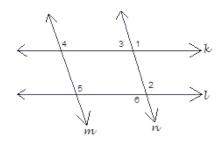
1. Given: line k // line l and $\angle 5 \cong \angle 1$

	m	
Statements	Reasons	

Prove: *line m // line n*



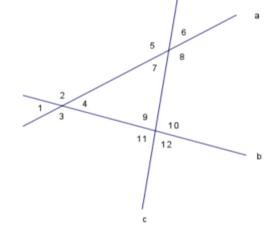
2. What is the difference between "| | lines \rightarrow alternate interior angles are \equiv " and "alternate interior angles are \equiv \rightarrow | | lines"?

3. \triangle ABC is an isosceles triangle with base AB. If AB = 9x + 31 and BC = 7x + 45 and AC = 11x + 27, find the length of each side.

4. Using the diagram to the right, identify the name for each angle pair listed.

- a. 49 and 48: _____
- b. $\angle 9$ and $\angle 4$: _____
- c. \angle^2 and \angle^6 : _____
- d. ²¹ and ²¹²:
- e. ²⁶ and ²¹¹: _____
- f. $\angle ^{9}$ and $\angle ^{10}$:_____





- 5. Write the converse of each statement and then decide whether the converse is True or False.
- a. If three points are collinear, then they lie on the same line.

TRUE FALSE

b. If two angles are right angles, then they are congruent.

TRUE FALSE

6. Are the lines parallel? Show mathematical evidence to support your response.

