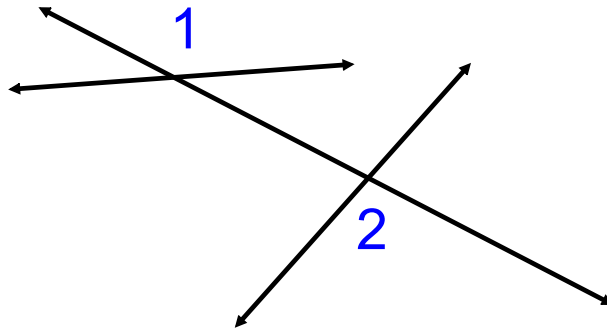


# Bellwork:

How are angles 1 and 2 related?



## Chapter 3.2: Parallel Lines and Transversal

IF PARALLEL LINES ARE CROSSED BY A TRANSVERSAL, THEN.....

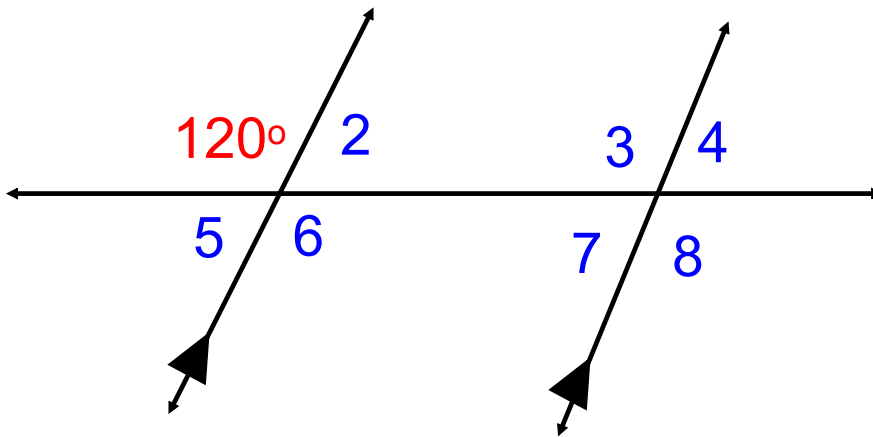
Corresponding angles are congruent

Alternate Interior angles are congruent

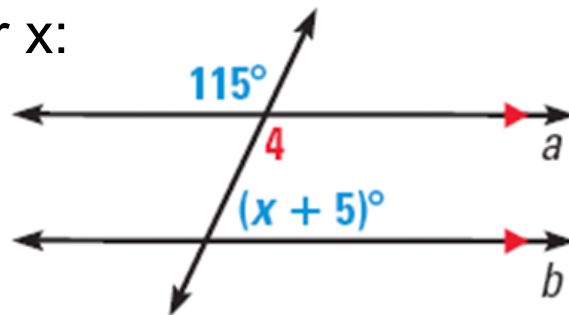
Alternate Exterior angles are congruent

Consecutive Interior angles are supplementary

ex. The measure of three of the numbered angles is  $120^\circ$ . Identify the angles and why.



ex. Find the value for  $x$ :

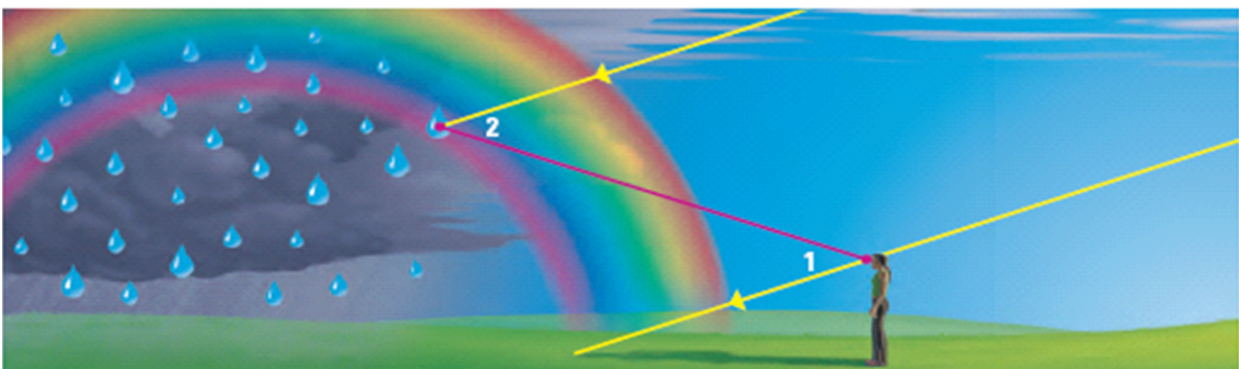


Prove that if two parallel lines are cut by a transversal, then the pairs of alternate interior angles are congruent.

Given:  $l \parallel h$

Prove:  $\angle 1 \cong \angle 2$

ex. When sunlight enters a drop of rain, different colors of light leave the drop at different angles. this process is what makes a rainbow. For violet light  $m\angle 2 = 40^\circ$ . What is  $m\angle 1$ ? How do you know?



Homework: Chapter 3.2 pg.157  
#'s 4-8,10-18e,22-30e