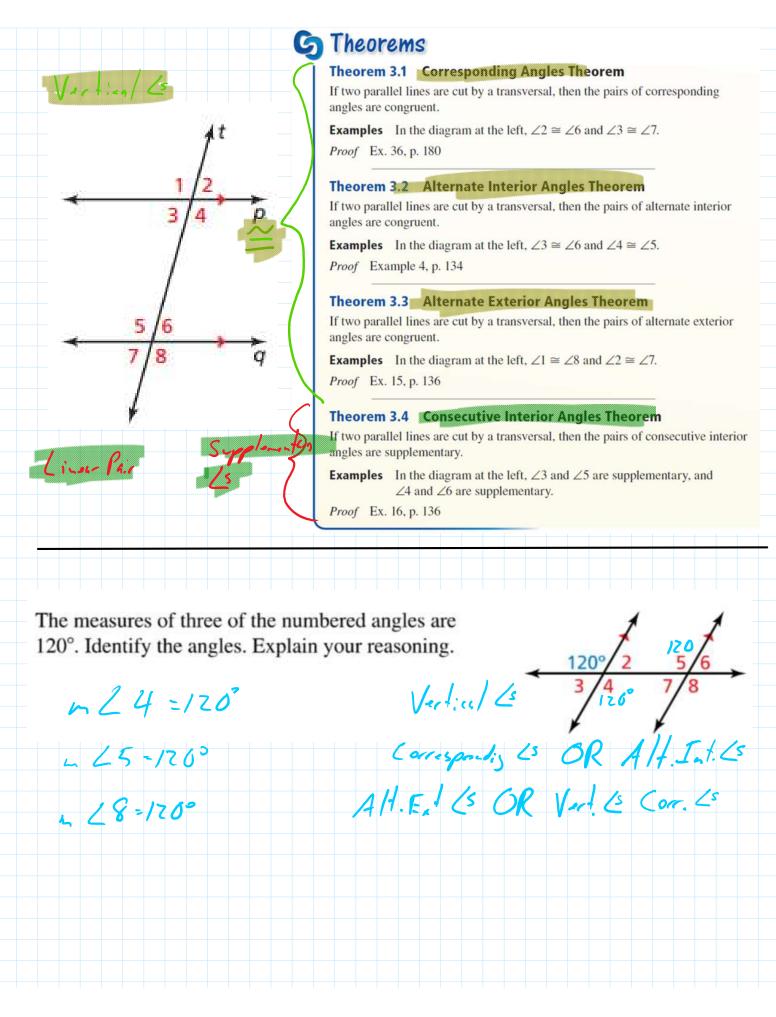
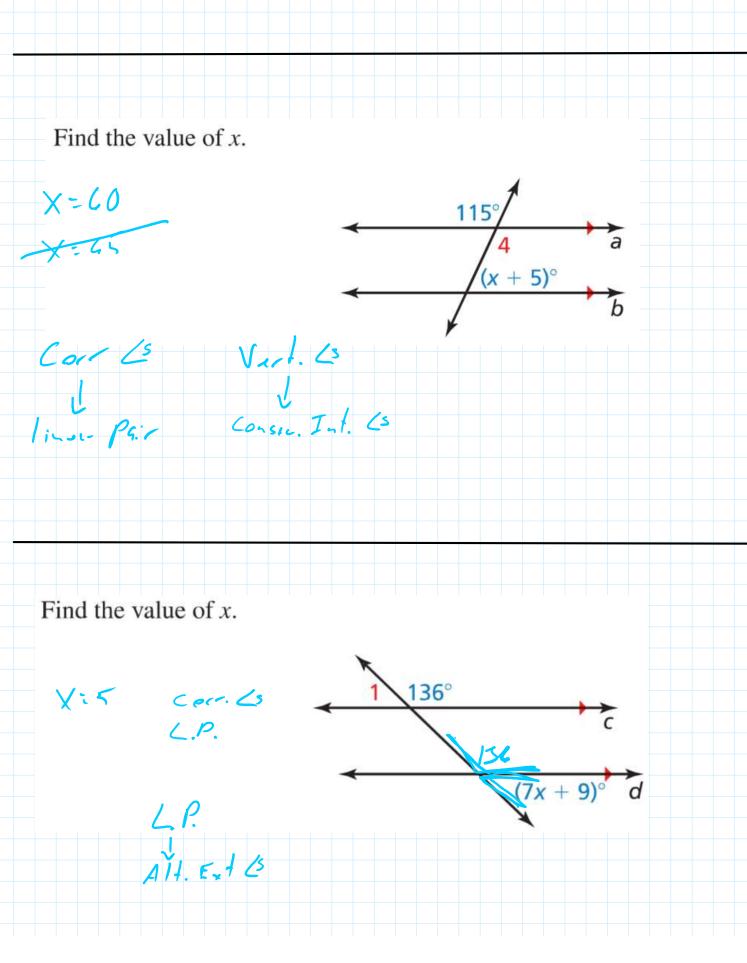
## What You Will Learn

- Use properties of parallel lines.
- Prove theorems about parallel lines.

≻

Solve real-life problems.





## Use the diagram.

m 2 4 = 105° m 2 3=105°

~ 68=105

**1.** Given  $m \angle 1 = 105^{\circ}$ , find  $m \angle 4$ ,  $m \angle 5$ , and  $m \angle 8$ . Tell which theorem you use in each case.

Verl. LS

Cour. LS OR Alt. I. I. LS

Alt. Ext. LS OK Varl. LS OK

Con ls

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?

~ [ ] = 40° Alt. Int. 25

## Practice *sec. 3.2* Pg. 135 1, 2, 3-13 odd, 14, 15, 23, 25-28