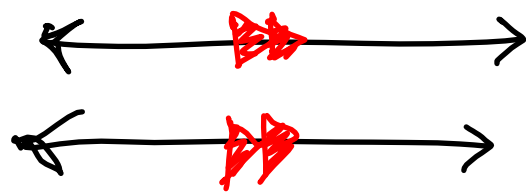


# Parallel Lines

- parallel lines  $\rightarrow$  lines run alongside one another, never intersect

$\hookrightarrow$  symbol  $\Rightarrow \parallel$  ( $\overleftrightarrow{AB} \parallel \overleftrightarrow{CD}$ )

$\hookrightarrow$  noted by arrows in middle of line

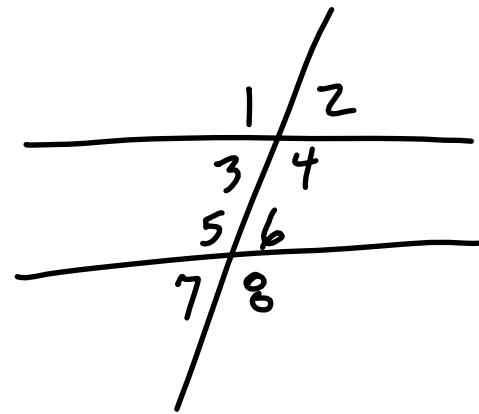


- same-side interior  $\angle$ 's are supplementary (add to  $180^\circ$ )

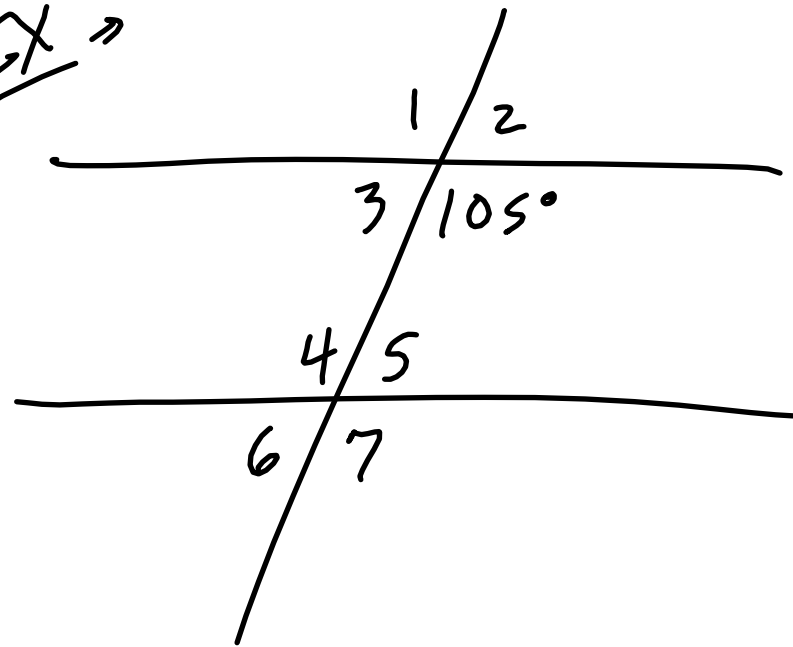
- alternate interior  $\angle$ 's are  $\cong$

- corresponding  $\angle$ 's are  $\cong$

- alternate exterior  $\angle$ 's are  $\cong$



EX →



$$m\angle 1 = 105^\circ$$

$$m\angle 2 = 75^\circ$$

$$m\angle 3 = 75^\circ$$

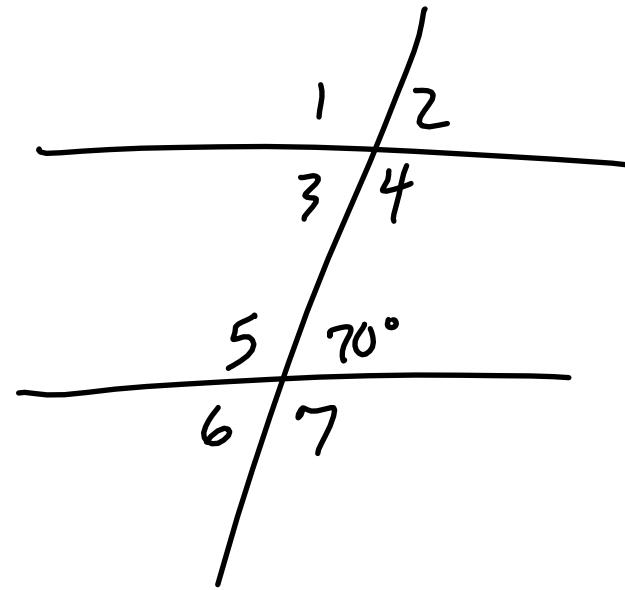
$$m\angle 4 = 105^\circ$$

$$m\angle 5 = 75^\circ$$

$$m\angle 6 = 75^\circ$$

$$m\angle 7 = 105^\circ$$

EX →



$$m\angle 1 = 110^\circ$$

$$m\angle 2 = 70^\circ$$

$$m\angle 3 = 70^\circ$$

$$m\angle 4 = 110^\circ$$

$$m\angle 5 = 110^\circ$$

$$m\angle 6 = 70^\circ$$

$$m\angle 7 = 110^\circ$$

HW: p. 153 → 7-9, 12-18

p. 161 → 12-16, 31-34, 47, 48, 50