## 6.1 Practice B

**1.** Copy and complete the proof of the Alternate Interior Angles Theorem.

Given  $\ell \parallel m$ 

**Prove**  $\angle 4 \cong \angle 5$ 



STATEMENTS	REASONS
<b>1.</b> ℓ    <i>m</i>	1. Given
<b>2.</b> ∠4 ≅ ∠8	2
3	<b>3.</b> Vertical Angles Congruence Theorem
<b>4.</b> ∠4 ≅ ∠5	<b>4.</b> Transitive Property of Congruence

**2.** Copy and complete the flowchart proof. Then write a paragraph proof.

Given  $\angle 5 \cong \angle 3$ 



**Prove**  $m \angle 1 = 90^{\circ}$ 





 Your friend says that there is not enough information to prove that ∠ABD ≅ ∠CBD. Is your friend correct? Explain your reasoning.