























Step

Reason

1. ∠1 ≅ ∠5

1. (orr L's 2. Vert L's

2. ∠1 ≅ ∠3

3. ∠3 ≅ ∠5

Subst

∠3 and ∠5 are called Alternate Interior Angles

Alternate Interior Angles are CONGRUENT

THEOREM

Step

Reason

- 1. $\angle 1 \cong \angle 5$ 2. $\angle 1 + \angle 2 = 180^{\circ}$ 2. $\angle 1 + \angle 2 = 180^{\circ}$ 3. $\angle 1 + \angle 2 = 180^{\circ}$ 4. $\angle 1 = 2 + 2 = 180^{\circ}$ 5. $\angle 1 = 2 + 2 = 180^{\circ}$
- 3. $\angle 5 + \angle 2 = 180^{\circ}$ 3.
- 4. <u>∠</u>5 and <u>∠</u>2 are supplementary
- ∠5 and ∠2 are called Same-Side Interior Angles

THEOREM

Same-Side Interior Angles are SUPPLEMENTARY

