

- Use the converses of the Corresponding Angles Postulate, Alternate Interior Angles Theorem, Alternate Exterior Angles Theorem, and the Same Side Interior Angles Theorem to show that lines are parallel.

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## C'osuerse Corresponding Angles

## Postulate (Converse CA)

If two lines are cut by a transversal and the corresponding angles are ___, then the lines are $\qquad$ Consyerse Alternate Interior Angles
Theorem (Converse AlA)


If two lines are cut by a transversal and the alternate interior angles are $\qquad$ , then the lines are

# Consyer'sy Alternate Interior Angles Theorem (Converse AEA) 



If two lines are cut by a transversal and the alternate exterior angles are $\qquad$ , then the lines are Cojsyerse Same Side Interior Angles
Theorem (Converse SSI)
If two lines are cut by a transversal and the same side interior angles are , then the lines are

## Fundamental Differences Between the Original and the Converse

These determine congruent angles

- CA Postulate
- AIA Theorem
- AEA Theorem
- SSI Theorem

These determine parallel lines

- Converse CA Postulate
- Converse AIA Theorem
- Converse AEA Theorem
- Converse SSI Theorem

1. Duplicating a segment
2. Adding and Subtracting segments
3. Equilateral Triangle
4. $60^{\circ}$ Angle
5. Isosceles Triangle
6. Duplicating an angle
7. Adding angles
8. Duplicate Triangle
9. Parallel Lines
