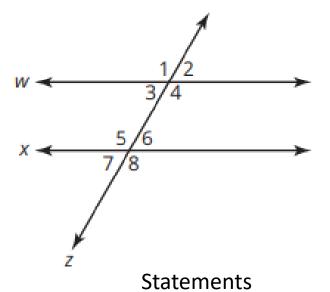
Earlier, you proved the Corresponding Angles Converse Theorem. You can use that theorem to prove the converse of other parallel line theorems.



 Write the converse of the Alternate Interior Angle Theorem.

2. Use the diagram to write the given and prove statements for your converse statement. Then prove that this relationship exists in all cases.

Reasons

Because your converse statement has been proved to be true, you can now refer to it as a theorem. The

Alternate Interior
Angles Converse
Theorem states: "If
two lines intersected
by a transversal form
congruent alternate
interior angles, then
the lines are parallel."