

Worksheet 4.4: Proving Theorems II

You have already written proofs in two-column form for each of the theorems below. Now write a proof in paragraph form. A proof in paragraph form is like writing an essay in English class. Use your proof in two-column form as an outline and write the proof as if you were explaining the proof to a friend. Be sure to include a figure with your proof.

1. If two parallel lines are cut by a transversal, then alternate interior angles are congruent.

2. If two parallel lines are cut by a transversal, then same-side interior angles are supplementary.

3. Vertical angles are congruent.