4.5

**EXAMPLE** When two figures are congruent, their corresponding sides and corresponding angles are congruent. In the diagram,  $\triangle ABC \cong \triangle XYZ$ .



## Use the diagram above of $\triangle ABC$ and $\triangle XYZ$ .

- 7. Identify the congruent corresponding parts of the triangles.
- **8.** Given  $m \angle A = 48^{\circ}$  and  $m \angle Z = 37^{\circ}$ , find  $m \angle Y$ .



Decide whether it is possible to prove that the triangles are congruent. If it is possible, tell which postulate or theorem you would use. Explain your reasoning.

