

Th. 5.13 The Hinge Th.

If 2 sides of 1 $\triangle$ are $\cong$ to 2 sides of a 2nd $\triangle$, and the included $\angle$ in the 1st $\triangle$ is greater than the included $\angle$ in the 2nd $\triangle$, then the 3rd side of the 1st $\triangle$ is greater than the 3rd side of the 2nd $\triangle$.

Th. 5.14 The Converse of the Hinge Th.

If 2 sides of 1 Δ are $\cong$ to 2 sides of a 2nd Δ , and the 3rd side of the 1st Δ is greater than the 3rd side of the 2nd Δ , then the included $\angle$ of the 1st Δ is greater than the included $\angle$ of the 2nd Δ .