

Proof #10

- ① $\overline{RS} \perp \overline{ST}$; $\overline{TU} \perp \overline{ST}$; ① Given
- V is the midpoint of \overline{ST}
- ② $\overline{SV} \cong \overline{TV}$ ② Def. of a midpoint
- ③ $\angle S$ and $\angle T$ are right angles ③ Def. of \perp lines
- ④ $\angle R \cong \angle U$ ④ Right Angle Congruence Theorem
- ⑤ $\angle RVS \cong \angle UVT$ ⑤ Vertical Angles Congruence Theorem
- ⑥ $\triangle RSV \cong \triangle UTV$ ⑥ ASA Congruence Postulate

