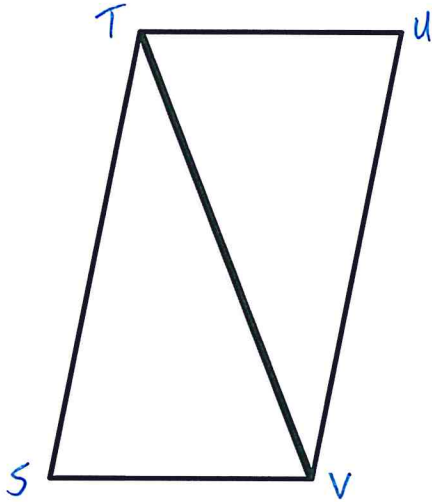


Geometric Proofs
Congruence Proofs & Similarity Proofs – Accuracy

Prove the following triangles are congruent using SSS, SAS, AAS, ASA, or HL:

1. **Given:** STUV is a parallelogram

Prove: $\triangle STV \cong \triangle UVT$

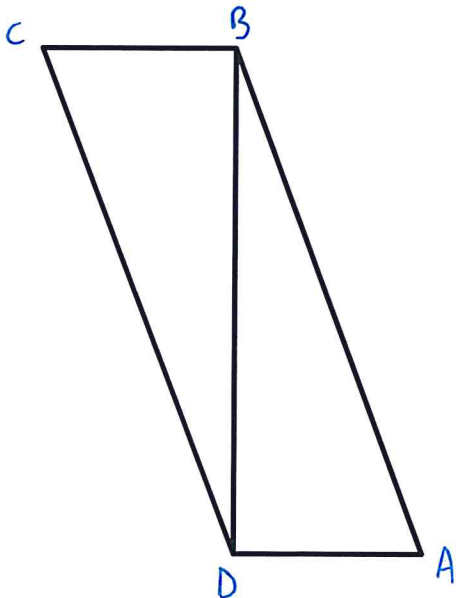


2. **Given:** $\overline{BD} \perp \overline{BC}$

$\overline{BD} \perp \overline{AD}$

ABCD is a parallelogram

Prove: $\triangle ABD \cong \triangle CDB$



Prove the following triangles are similar using SSS, SAS, or AA:

3. Given: $\overline{RS} \perp \overline{RT}$

$\overline{RU} \perp \overline{QU}$

$\overline{RS} = 56$

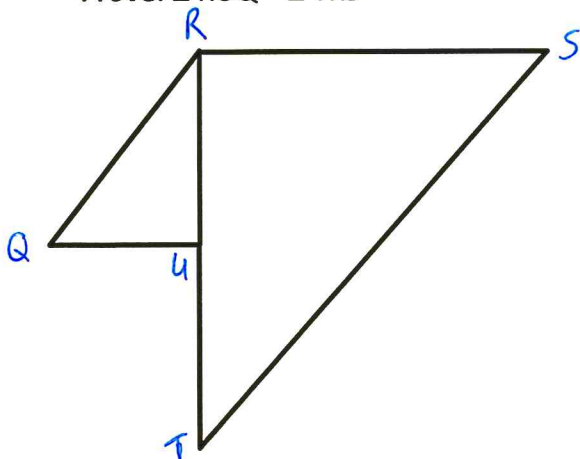
$\overline{ST} = 119$

$\overline{TU} = 90$

$\overline{QU} = 8$

$\overline{UR} = 15$

Prove: $\triangle RUQ \sim \triangle TRS$



4. Given: $\angle A = 52^\circ$

$\angle C = 68^\circ$

$\angle X = 60^\circ$

$\angle W = 52^\circ$

$\overline{AB} = 15$

$\overline{BC} = 10$

$\overline{AC} = 5$

$\overline{XY} = 14$

$\overline{WX} = 21$

$\overline{WY} = 7$

Prove: $\triangle ABC \sim \triangle WXY$

