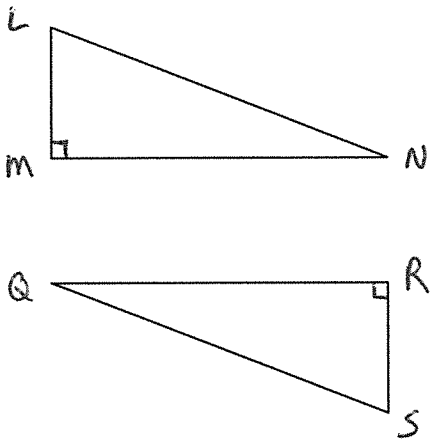
Proving Triangle Congruence by SSS

Unit 4: Similarities

Prove each of the following using an emphasis on Side-Side-Side:

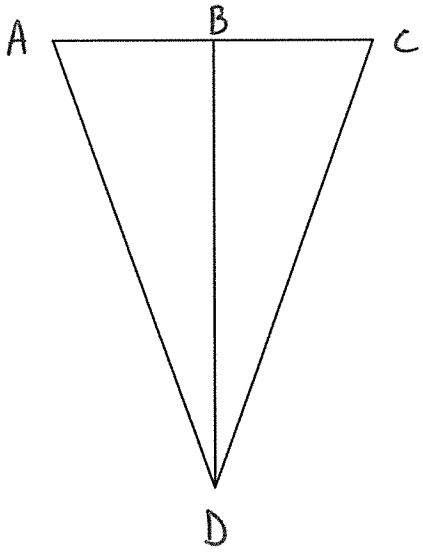
1. **Given:** LM ≅ SR
   MN ≅ RQ
   LN ≅ SQ

   Prove: Δ LMN ≅ ΔSRQ



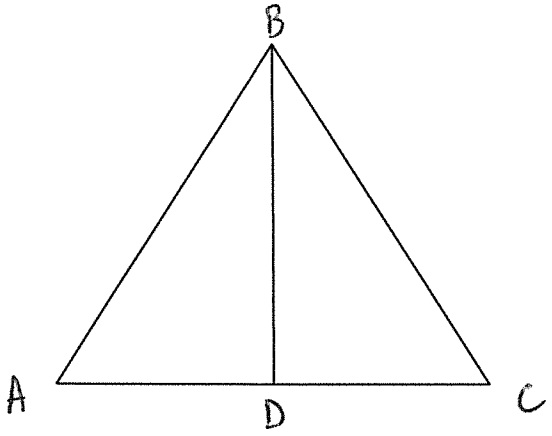
2. **Given:** AD ≅ CD
   AB ≅ BC

   Prove: Δ ABD ≅ Δ CBD



3. **Given:** AB ≅ BC
D is the midpoint of AC

Prove: Δ ABD ≅ Δ CBD



4. **Given:** AF ≅ BC
AE ≅ CD
BDFE is a square

Prove: Δ AEF ≅ Δ CDB