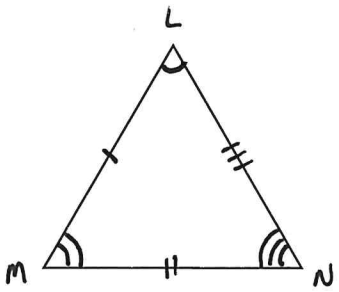
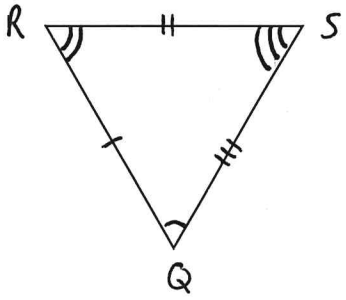
Unit 4: Similarities

Additional Practice

For the following set of triangles provide CONGRUENCE statements showing Δ LMN ≅ Δ QRS:

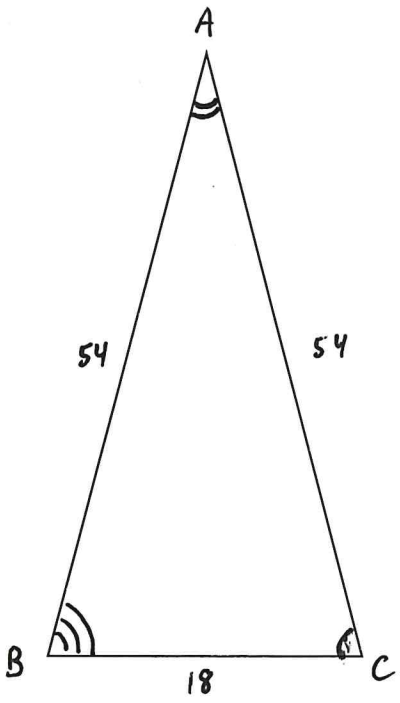
1. *This is NOT a proof!*

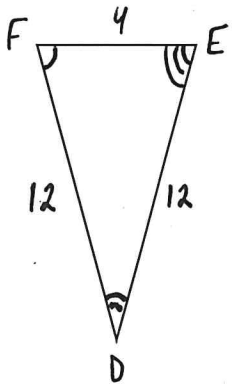




For the following set of triangles provide SIMILARITY statements showing Δ ABC ~ Δ DEF:

2. *This is NOT a proof!*

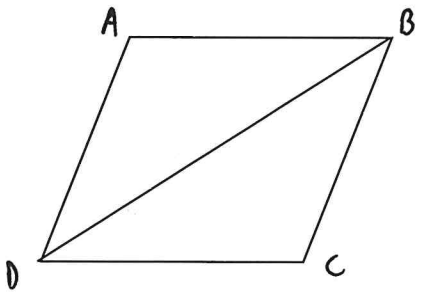




Prove the following triangles are CONGRUENT using two different techniques (SSS, SAS, ASA, AAS, or HL):

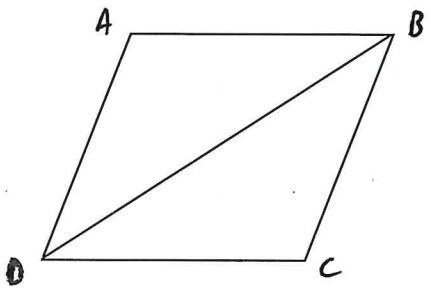
3. **Given:** ABCD is a Rhombus

Prove: Δ ABD ≅ Δ CDB



4. **Given:** ABCD is a Rhombus

Prove: Δ ABD ≅ Δ CDB



Prove the following triangles are SIMILARITY using two different techniques (SSS, SAS, or AA):

5. **Given:** $\overline{AB} \parallel \overline{ED}$

$\overline{AE}$ = 10

$\overline{AB}$ = 10

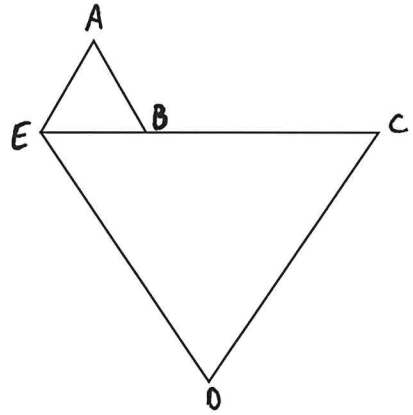
$\overline{EB}$ = 5

$\overline{BC}$ = 15

$\overline{ED}$ = 40

$\overline{CD}$ = 40

Prove: Δ DEC ~ Δ ABE



6. **Given:** $\overline{AB} \parallel \overline{ED}$

$\overline{AE}$ = 10

$\overline{AB}$ = 10

$\overline{EB}$ = 5

$\overline{BC}$ = 15

$\overline{ED}$ = 40

$\overline{CD}$ = 40

Prove: Δ DEC ~ Δ ABE