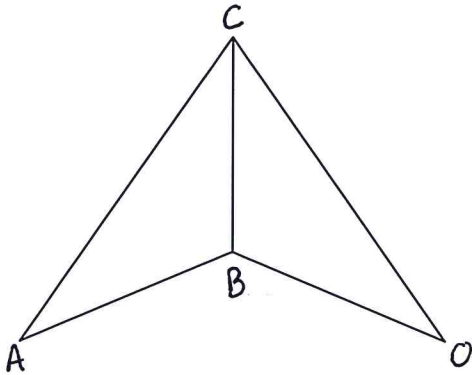


Proofs Mixed Review – Day 2
Unit 4: Similarities

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

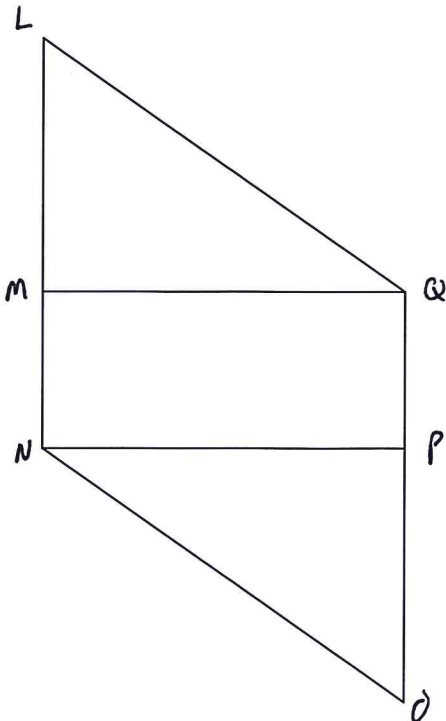
1. Given: $\overline{CA} \cong \overline{CO}$
 $\overline{AB} \cong \overline{OB}$
 \overline{CB} bisects $\angle ABO$
 \overline{CB} bisects $\angle OCA$

Prove: $\triangle CAB \cong \triangle COB$



2. Given: $\overline{LQ} \cong \overline{ON}$
 $\overline{LM} \cong \overline{MN}$
 $\overline{OP} \cong \overline{PQ}$
MNPQ is a rectangle

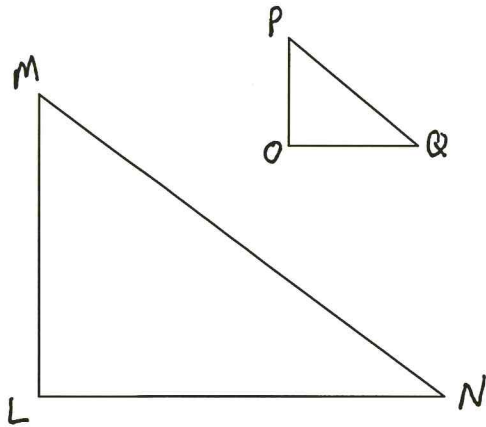
Prove: $\triangle LMQ \cong \triangle OPN$



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

3. Given: $\overline{ML} \perp \overline{LN}$
 $\overline{PO} \perp \overline{OQ}$
 $\overline{ML} = 55$
 $\overline{LN} = 132$
 $\overline{OP} = 5$
 $\overline{OQ} = 12$

Prove: $\triangle LNM \sim \triangle OQP$



4. Given: $\overline{YN} \parallel \overline{SB}$
 $\overline{BR} \parallel \overline{ON}$
 $\overline{YR} = 2$
 $\overline{YN} = 25$
 $\overline{ON} = 30$
 $\overline{SY} = 4$
 $\overline{SB} = 5$
 $\overline{BR} = 3$
 $\overline{OS} = 11$

Prove: $\triangle BRS \sim \triangle YON$

