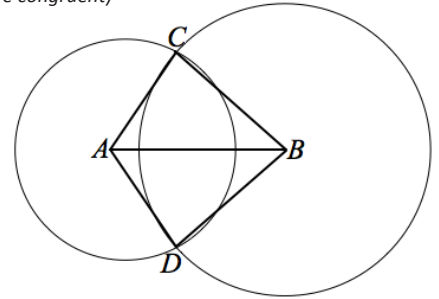


Name _____ Date _____ Section _____

Problem Set 4-5R/4-7L Use separate paper if you need more room.

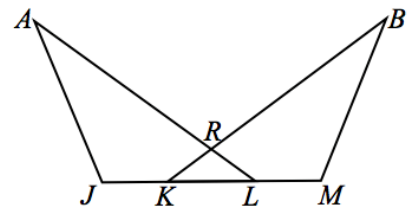
Use your knowledge of triangle congruence criteria to write proofs for each of the following problems.

1. Given: Circles with centers A and B intersect at C and D . (Hint: radii of a circle are congruent)
Prove: $\triangle CAB \cong \triangle DAB$.



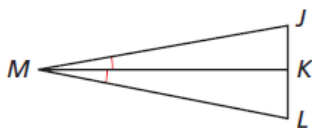
What specific rigid motion would map $\triangle CAB$ onto $\triangle DAB$? _____

2. Given: $\angle J \cong \angle M$, $\overline{KR} \cong \overline{LR}$; $\overline{JK} \cong \overline{ML}$
Prove: $\triangle AJL \cong \triangle BMK$

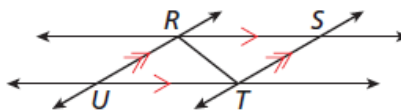


For 3&4 determine whether you can use ASA to prove the triangles are congruent. If possible, write out the proof. If not, explain why it is not possible.

3. $\triangle MKJ$ and $\triangle MKL$



4. $\triangle RST$ and $\triangle TUR$



Extra Credit:

Given: $\angle w \cong \angle x$ and $\angle y \cong \angle z$

Prove: $\triangle ABE \cong \triangle ACE$

