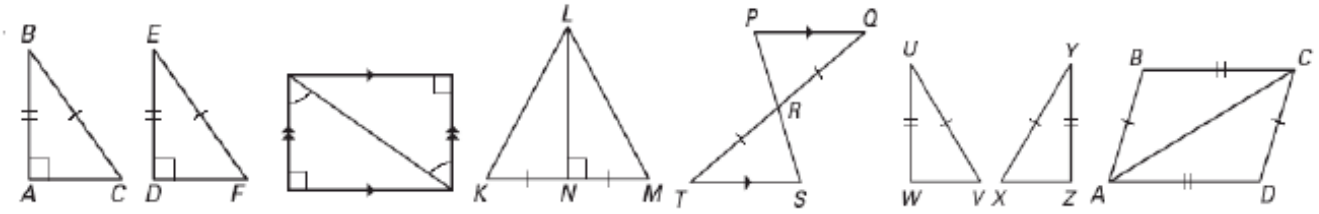
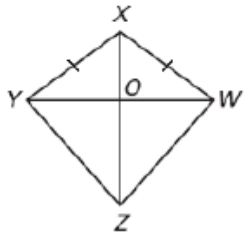
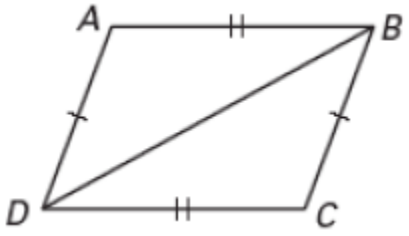
Name: _____ Per: _____

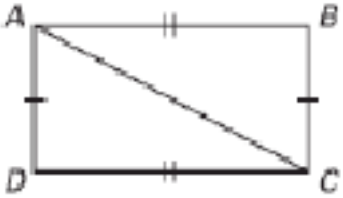
Is it possible to prove that these triangles are congruent? If so, state the postulate or theorem that you would use.

1. 2. 3. 4. 5. 6.

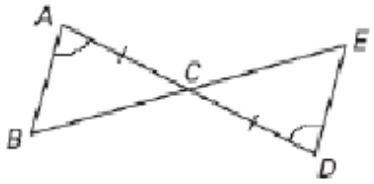


7. Given: $\overline{YX} \cong \overline{WX}$, $\overline{ZX}$ bisects $\angle YXW$ Prove: $\overline{YZ} \cong \overline{WZ}$ 	Statements	Reasons
	1.	1. Given
	2.	2. Given
	3. $\angle YXZ \cong \angle WXZ$	3.
	4. $\overline{XZ} \cong \overline{XZ}$	4.
	5. $\Delta YXZ \cong \Delta WXZ$	5.
	6.	6.

8. Given: $\overline{AB} \cong \overline{DC}$, $\overline{AD} \cong \overline{BC}$ Prove: $\angle A \cong \angle C$ 	Statements	Reasons
	1.	1. Given
	2.	2. Given
	3. $\overline{BD} \cong \overline{BD}$	3.
	4. $\Delta ABD \cong \Delta CDB$	4.
	5.	5.

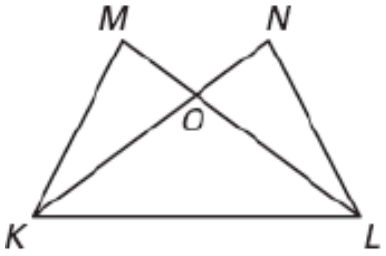
9. Given: $\overline{AD} \cong \overline{BC}$, $\overline{AB} \cong \overline{DC}$ Prove: $\overline{AD}$ ll $\overline{BC}$ 	Statements	Reasons
	1.	1. Given
	2.	2. Given
	3. $\overline{AC} \cong \overline{AC}$	3.
	4. $\Delta ADC \cong \Delta CBA$	4.
	5. $\angle DAC \cong \angle BCA$	5.
	6.	6.

10. Given: $\overline{AC} \cong \overline{DC}$, $\angle A \cong \angle D$
Prove: $\angle B \cong \angle E$



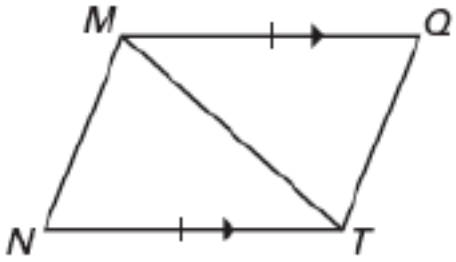
Statements	Reasons
1.	1. Given
2.	2. Given
3. $\angle ACB \cong \angle DCE$	3.
4. $\Delta ABC \cong \Delta DEC$	4.
5.	5.

11. Given: $\angle M \cong \angle N$
$\angle MKL \cong \angle NLK$
Prove: $\overline{MK} \cong \overline{NL}$



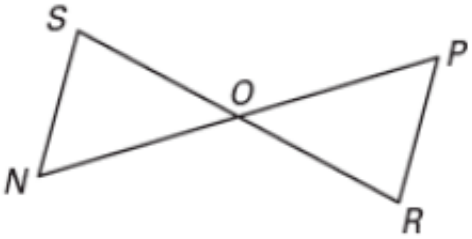
Statements	Reasons
1.	1. Given
2.	2. Given
3. $\overline{KL} \cong \overline{KL}$	3.
4. $\Delta KLN \cong \Delta LKM$	4.
5.	5.

12. Given: $\overline{MQ} \cong \overline{NT}$, $\overline{MQ} \parallel \overline{NT}$
Prove: $\overline{MN} \cong \overline{TQ}$



Statements	Reasons
1.	1. Given
2.	2. Given
3. $\angle NTM \cong \angle QMT$	3.
4. $\overline{MT} \cong \overline{MT}$	4.
5. $\Delta MTN \cong \Delta TMQ$	5.
6.	6.

13. Given: O is the midpoint of $\overline{NP}$
$\angle N \cong \angle P$
Prove: O is the midpoint of $\overline{SR}$



Statements	Reasons
1.	1. Given
2.	2. Given
3. $\overline{NO} \cong \overline{PO}$	3.
4. $\angle SON \cong \angle ROP$	4.
5. $\Delta NOS \cong \Delta POR$	5.
6. $\overline{SO} \cong \overline{RO}$	6.
7.	7.