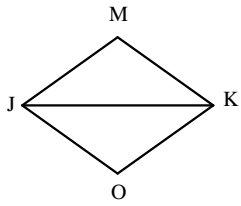
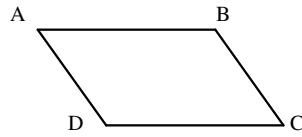


4-3 Worksheet

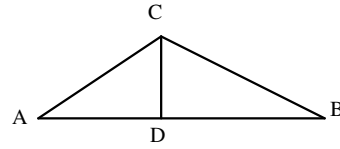
Using Congruent Triangles to show other congruencies



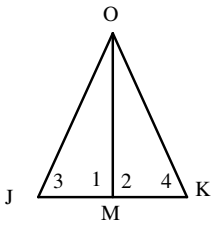
Given: $\overline{MK} \cong \overline{OK}$
 $\overline{KJ}$ bisects $\angle MKO$
 Prove: $\overline{KJ}$ bisects $\angle MJO$



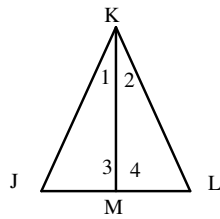
Given: $\overline{AD} \parallel \overline{BC}$
 $\overline{AD} \cong \overline{BC}$
 Prove: $\overline{AB} \cong \overline{CD}$



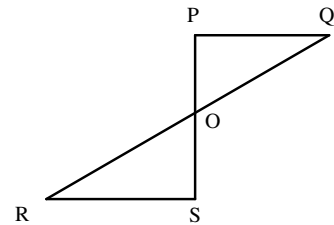
Given: $\overline{CD} \perp \overline{AB}$
 D is the mp of $\overline{AB}$
 Prove: $\overline{CA} \cong \overline{CB}$



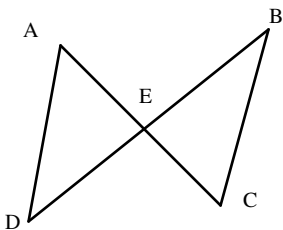
Given: $\angle 1 \cong \angle 2$
 $\angle 3 \cong \angle 4$
 Prove: M is the mp of $\overline{JK}$



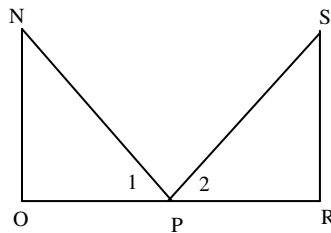
Given: $\angle 1 \cong \angle 2$
 $\angle 3 \cong \angle 4$
 Prove: $\triangle JKL$ is isosceles



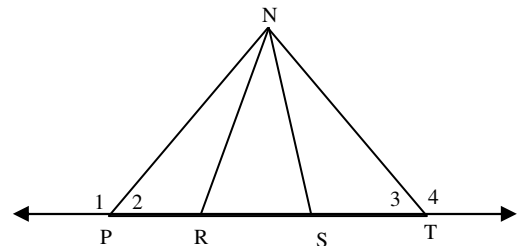
Given: $\angle P \cong \angle S$
 O is the mp of $\overline{PS}$
 Prove: O is the mp of $\overline{QR}$



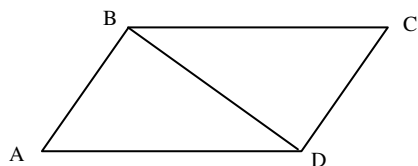
Given: $\overline{AE} \cong \overline{BE}$
 $\overline{DE} \cong \overline{CE}$
 Prove: $\angle D \cong \angle C$



Given: $\overline{NO} \perp \overline{OR}, \overline{SR} \perp \overline{OR}$,
 $\angle 1 \cong \angle 2, \overline{NO} \cong \overline{SR}$
 Prove: $\overline{NP} \cong \overline{SP}$

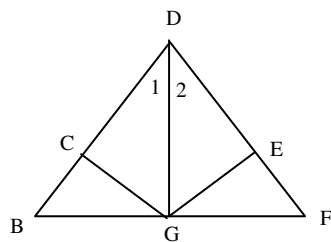


Given: $\angle 1 \cong \angle 4$,
 $\overline{PS} = \overline{RT}, \overline{NP} \cong \overline{NT}$
 Prove: $\angle PNR \cong \angle TNS$



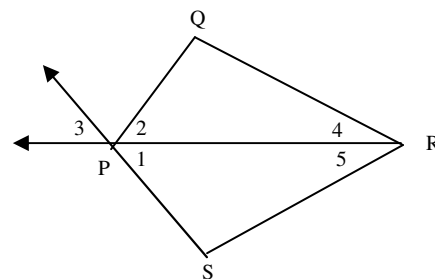
Given: $\overline{AB} \parallel \overline{CD}, \overline{BC} \parallel \overline{AD}$

Prove: $\overline{AD} \cong \overline{BC}$



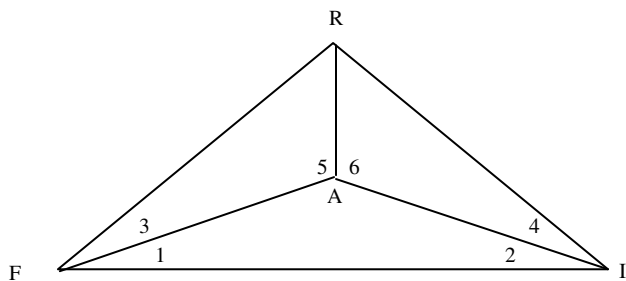
Given: $\overline{BC} \cong \overline{EF}, \overline{DC} \cong \overline{DE}$
 $\angle 1 \cong \angle 2$

Prove: $\angle B \cong \angle F$



Given: $\angle 4 \cong \angle 5, \overline{QR} \cong \overline{SR}$

Prove: $\angle 2 \cong \angle 3$



Given: $\angle 1 \cong \angle 2, \angle RFI \cong \angle RIF$

$\overline{RA}$ bisects $\angle FRI$, $\overline{FR} \cong \overline{RI}$

Prove: $\overline{FA} \cong \overline{IA}$

Answers:

1.
Given
Def angle Bisector
Reflexive
SAS
CPCTC
Def of Angle bisector

2.
Given
PAIC
Reflexive
SAS

3.
Given
Def of Midpoint
If 2 lines are perp they form congruent adjacent angles
Reflexive
SAS
CPCTC

4.
Given
Reflexive
AAS
CPCTC
Def Midpoint

5.
Given
Reflexive
ASA
CPCTC
Def Iso Triangle

6.
Given
VAT
Def of Midpoint
ASA
CPCTC
Def of Midpoint

7.
Given
VAT
SAS
CPCTC

8.
Given
Def of Perp
Transitive
AAS
CPCTC

9.
Given
AAP
Subst
Subtract
SAP
Subst
Subtract
SAS
CPCTC

10.
Given
PAIC
Reflexive
ASA
CPCTC

11.
Given
Reflexive
SAP
Subst
Subtract
SAS
CPCTC

12.
Given
Reflexive
SAS
CPCTC
VAT
Transitive

13. Given
Reflexive
Def angle bisecto
SAS
CPCTC