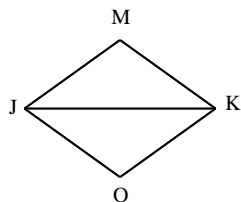
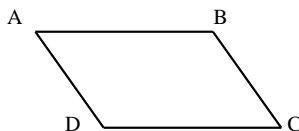


# CPCTC Assignment

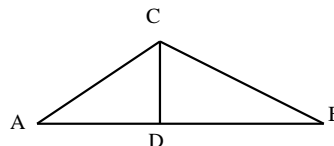
## Using Congruent Triangles to Show Other Congruencies (On a Separate Sheet of Paper)



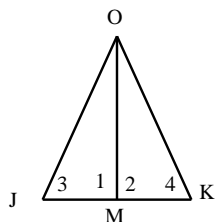
Given:  $\overline{MK} \cong \overline{OK}$   
 $\overline{KJ}$  bisects  $\angle MKO$   
 Prove:  $\overline{KJ}$  bisects  $\angle MJO$



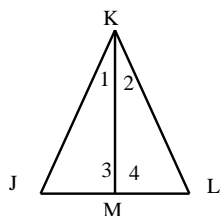
Given:  $\overline{AD} \parallel \overline{BC}$   
 $\overline{AD} \cong \overline{BC}$   
 Prove:  $\overline{AB} \cong \overline{CD}$



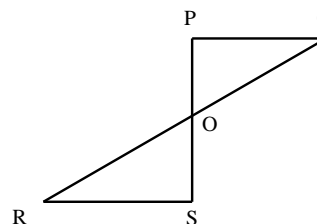
Given:  $\overline{CD} \perp \overline{AB}$   
 D is the mp of  $\overline{AB}$   
 Prove:  $\overline{CA} \cong \overline{CB}$



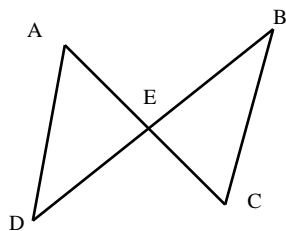
Given:  $\angle 1 \cong \angle 2$   
 $\angle 3 \cong \angle 4$   
 Prove: M is the mp of  $\overline{JK}$



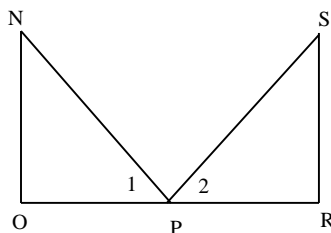
Given:  $\angle 1 \cong \angle 2$   
 $\angle 3 \cong \angle 4$   
 Prove:  $\triangle JKL$  is isosceles



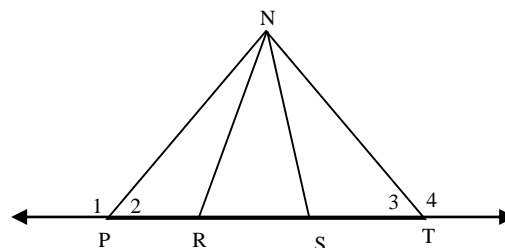
Given:  $\angle P \cong \angle S$   
 O is the mp of  $\overline{PS}$   
 Prove: O is the mp of  $\overline{QR}$



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



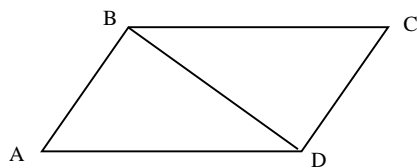
Given:  $\overline{NO} \perp \overline{OR}, \overline{SR} \perp \overline{OR}$ ,  
 $\angle 1 \cong \angle 2, \overline{NO} \cong \overline{SR}$   
 Prove:  $\overline{NP} \cong \overline{SP}$



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

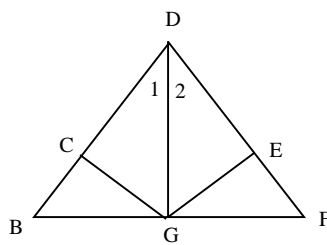
Name: \_\_\_\_\_ Period: \_\_\_\_\_ Date: \_\_\_\_\_

## CPCTC Assignment



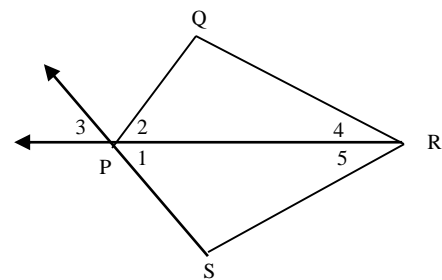
Given:  $\overline{AB} \parallel \overline{CD}$ ,  $\overline{BC} \parallel \overline{AD}$

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



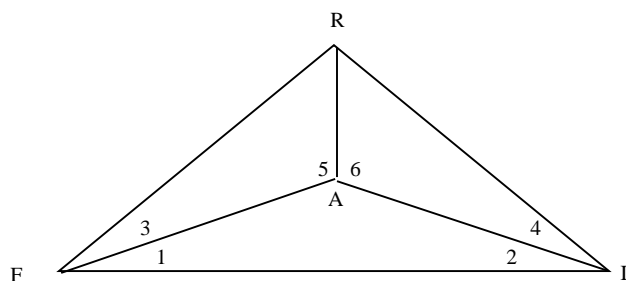
Given:  $\overline{BC} \cong \overline{EF}$ ,  $\overline{DC} \cong \overline{DE}$   
 $\angle 1 \cong \angle 2$

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

## CPCTC Assignment

### 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

bisecto

SAS

CPCTC

VAT

Transitive

13. Given

Reflexive

Def angle

SAS

CPCTC