Name: _____ Date _____

Topic : *Practice with Beginning Congruent Triangle Proofs- Worksheet 1*

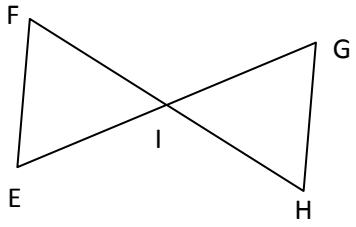
Determine the reason:

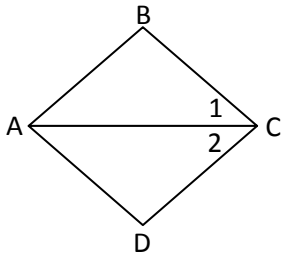
Given: FE = HG

FH bisect EG

EG bisect FH

Prove: ΔEFI ≅ ΔGHI





Given: BC ≅ CD

$\overline{AC}$ bisect <BCD

Prove: ΔABC ≅ ΔADC

1. $\overline{FE} \cong \overline{HG}$

2. I is the midpoint of $\overline{FH}$

I is the midpoint of $\overline{EG}$

3. FI ≅ IH

4.

EI ≅ IG

5. ΔEIF ≅ ΔGIH

6. BC ≅ CD

7. <1 ≅ <2

8. AC ≅ AC

9. ΔABC ≅ ΔADC

10. $\overline{AC}$ bisect <BCD

Name: _____ Date _____

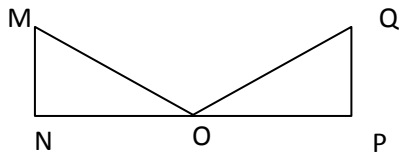
Topic : Practice with Beginning Congruent Triangle Proofs- Worksheet 2

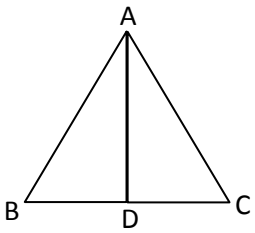
Determine the reason:

Given: $\overline{MN} \cong \overline{QP}$

O is the midpoint $\overline{NP}$

Prove: $\Delta MNO \cong \Delta QPO$





Given: $\overline{AB} \cong \overline{AC}$

$\overline{AD}$ bisect $\overline{BC}$

Prove: $\Delta ABD \cong \Delta ACD$

1.	$\overline{MN} \cong \overline{QP}$
2.	O is the midpoint of $\overline{NP}$
3.	$\angle N \cong \angle P$
4.	$\angle N$, $\angle P$ RIGHT ANGLES
5.	$\Delta MNO \cong \Delta QPO$
6.	$\overline{AB} \cong \overline{AC}$
7.	D is the midpoint $\overline{BC}$
8.	$\overline{BD} \cong \overline{DC}$
9.	$\overline{AD} \cong \overline{AD}$
10.	$\Delta ABD \cong \Delta ACD$

Name: _____ Date _____

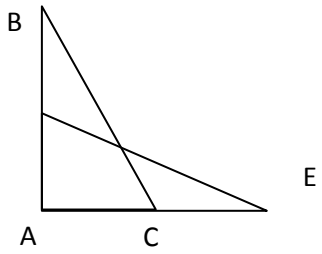
Topic D Practice with Beginning Congruent Triangle Proofs- Worksheet 3

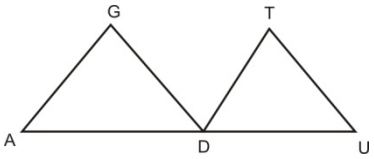
Determine the reason:

Given: $\angle A \cong \angle E$

$\overline{AB} \cong \overline{BE}$

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





Given: $\angle A \neq \angle U$, $\angle GDA \cong \angle TDU$,

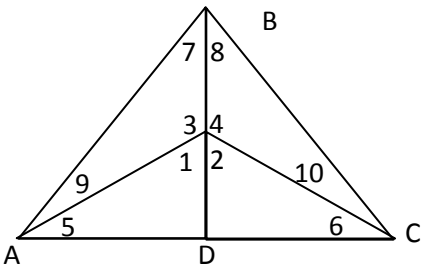
D is the midpoint of AU

Prove: $\Delta AGD \cong \Delta UTD$

1.	$\angle B \cong \angle B$
2.	$AB = AD + DB$ $EB = EC + CB$
3.	$\angle A \cong \angle E$
4.	$AD = EC$
5.	$\overline{AD} \cong \overline{EC}$
6.	$\angle A \neq \angle U$
7.	$AD \cong DU$
8.	$\angle GDA \cong \angle TDU$
9.	$\Delta AGD \cong \Delta UTD$
10.	D is the midpoint of AU

Name: _____ Date _____

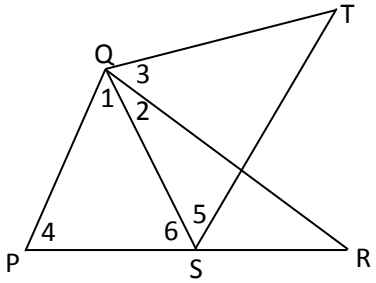
Worksheet 4



Given: <1 ≅ <2

7 ≅ 8

Prove: <5 ≅ <6



Given: m < 4 = m < 6

m < 1 = m < 3

Prove: < R ≅ < T

1. <1 ~= <2

2. BE ~= BE

3. ΔABE ≅ ΔCBE

4. AE ≅ CE

5. <5 ≅ <6

6. M<2 = M<2

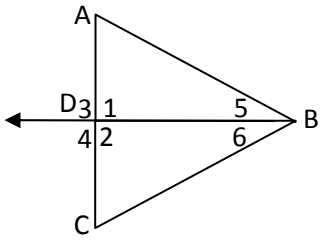
7. QP ≅ QS

8. M<4 = M<6

9. ΔSQT ≅ ΔPQR

10. <R ≅ <T

Name: _____ Date _____

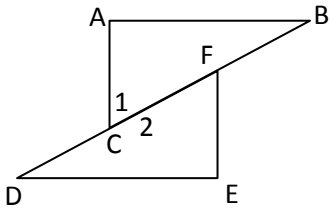


Given: $\overline{BD}$

$<3 \cong <4$

$\overline{AD} \cong \overline{CD}$

Prove: DB bisects <ABC



Given: $\overline{AC} \perp \overline{DB}$

$AC \cong EF$

$< A \cong < E$

Prove: $<B \cong <D$

Beginning Congruent Triangle Proofs- Worksheet 5

Determine the reason:

	$<1 \cong <2$	
1.		
	$DB \cong DB$	
2.		
	$\Delta ABE \cong \Delta CBE$	
3.		
4.	$\overline{BD}$	
	$\overline{DB}$ bisects <ABC	
5.		
	$AC \perp DB$	
6.		
	$AC \cong EF$	
7.		
8.	<1,<2 right angles	
	$\Delta ABC \cong \Delta EDF$	
9.		
	$<B \cong <D$	
10.		