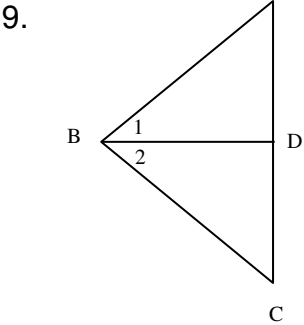
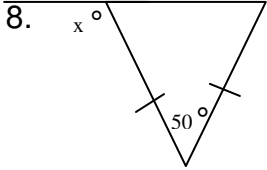
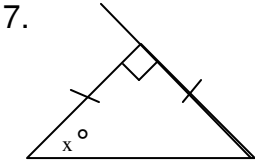
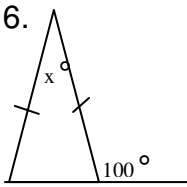
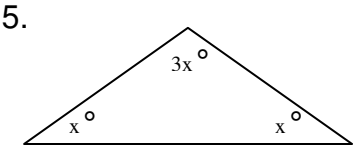
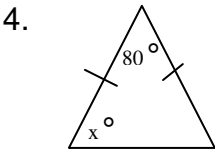
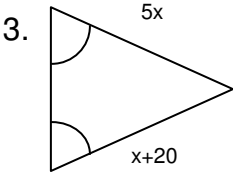
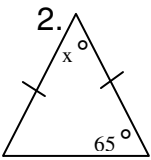
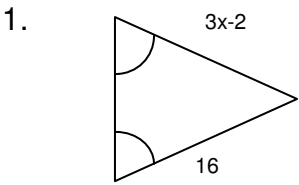
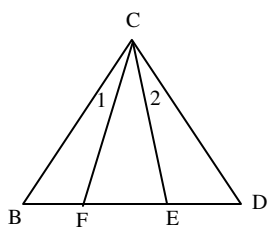




| Prove: $\overline{BD}$ bisects $\overline{AC}$                      |          |
|---------------------------------------------------------------------|----------|
| 1. $\overline{AB} \cong \overline{CB}$<br>$\angle 1 \cong \angle 2$ | 1. Given |

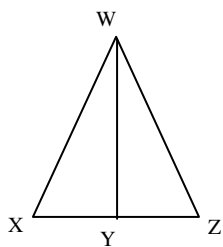
10.

PROVE:  $\angle 1 \cong \angle 2$ 

1.  $\overline{BC} \cong \overline{DC}, \overline{BF} \cong \overline{DE}$

1. GIVEN

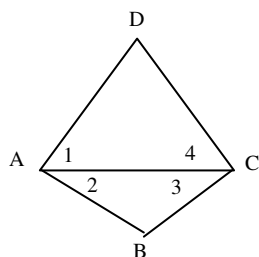
11.

PROVE:  $\angle X \cong \angle Z$ 

1.  $\overline{WY} \perp \overline{XZ}, \overline{XY} \cong \overline{YZ}$

1. GIVEN

12.

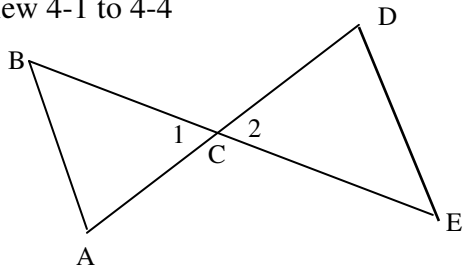
PROVE:  $\angle BAD = \angle BCD$ 

1.  $\overline{AB} \cong \overline{CB}, \overline{AD} \cong \overline{CD}$

1. GIVEN

Review 4-1 to 4-4

13.



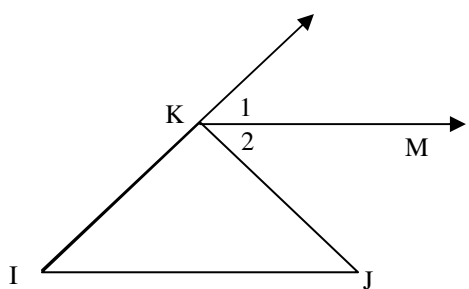
Prove:  $\angle B \cong \angle 2$

3

1.  $\overline{AB} \cong \overline{AC}$

1. GIVEN

14.

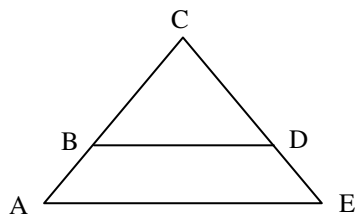


PROVE:  $\triangle IJK$  is isosceles

1.  $\overrightarrow{KM} \parallel \overrightarrow{IJ}$   $\angle 1 \cong \angle 2$

1. GIVEN

15.



PROVE:  $\overline{BC} \cong \overline{DC}$

1.  $\overline{BD} \parallel \overline{AE}$   $\overline{AC} \cong \overline{CE}$

Answers:

1. 6
2. 50
3. 5
4. 50
5. 36
6. 20
7. 45
8. 115
  
9. Given  
ITT  
3<sup>rd</sup> angle Corr.  
ASA  
Cpctc  
Def of Segment Bisector
  
10. Given  
ITT  
SAS  
CPCTC
  
11. Given  
Reflexive  
Def Perp  
Transitive  
SAS  
CPCTC
  
12. Given  
ITT (Twice)  
Add Property  
AAP  
Substitute
  
13. Given  
VAT  
ITT  
Transitive
  
14. Given  
PCAC (twice)  
Transitive  
Def Iso Triangle
  
15. Given  
ITT  
PCAC  
Transitive  
CITT