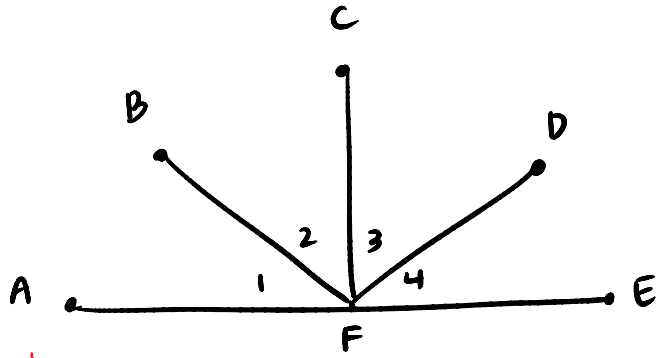


Review

pg 206: 4, 6, 8, 10, 12, 15, 20

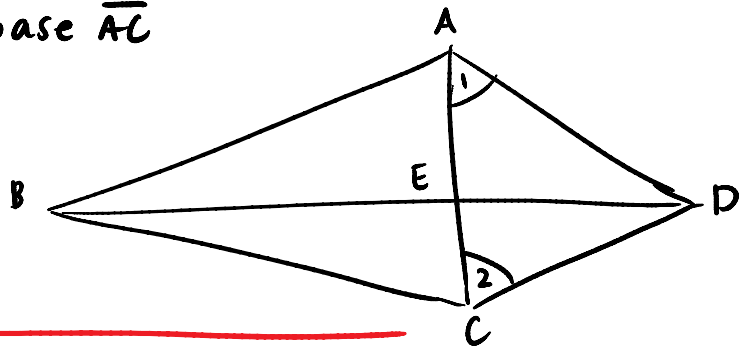
#4 Given:  $\angle 1 \cong \angle 4$   
 $\overrightarrow{FC}$  bisects  $\angle BFD$   
 Conc:  $\overrightarrow{CF} \perp \overrightarrow{AE}$



1.  $\angle 1 \cong \angle 4$
2.  $\overrightarrow{FC}$  bisects  $\angle BFD$
3.  $\angle 2 \cong \angle 3$
4.  $\angle CFA \cong \angle CFE$
5.  $\angle CFA$  and  $\angle CFE$  are  $\perp$ 's
6.  $\overrightarrow{CF} \perp \overrightarrow{AE}$

1. Given
2. Given
3. If a ray bisects an  $\angle \rightarrow$  divides the  $\angle$  into 2  $\cong$   $\angle$ 's
4. Addition prop
5. If 2  $\angle$ 's are supp. +  $\cong \rightarrow$   $\angle$ 's are  $\perp$ 's
6. If 2 lines intersect to form  $\perp$ 's  $\rightarrow$  lines are  $\perp$

#6 Given:  $\triangle ABC$  is isosceles w/ base  $\overline{AC}$   
 $\angle 1 \cong \angle 2$   
 Conc:  $\overrightarrow{BD} \perp \overrightarrow{AC}$

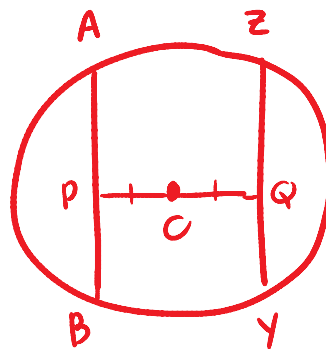


1.  $\triangle ABC$  is isos w/ base  $\overline{AC}$
2.  $\overline{AB} \cong \overline{CB}$
3.  $\angle 1 \cong \angle 2$
4.  $\overline{AD} \cong \overline{CD}$
5.  $\overrightarrow{BD} \perp \overrightarrow{AC}$

1. Given
2. If a  $\triangle$  is isos  $\rightarrow$  legs  $\cong$
3. Given
4. If  $\triangle \rightarrow$   $\triangle$
5. If 2 pts are equidistant from the endpts of a seg  $\rightarrow$  determine the  $\perp$  bisector of the segment

#8 If 2 chords of a circle are congruent, then the segments joining the midpts of the chords to the center of the circle are congruent

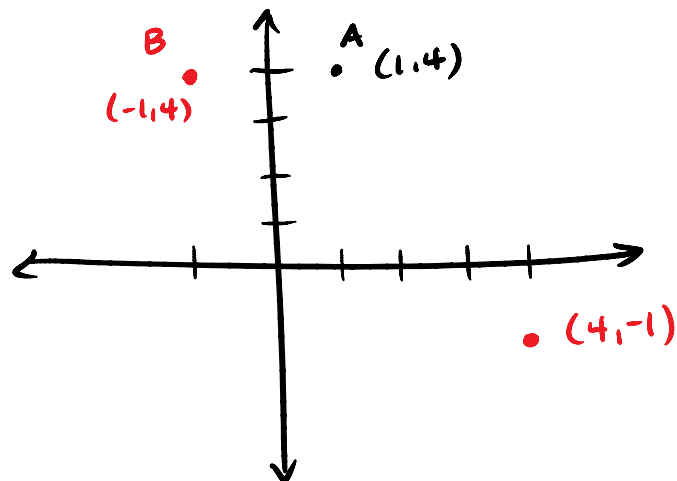
Given:  $\odot O$   
 $\overline{AB} \cong \overline{ZY}$   
 P midpt of  $\overline{AB}$   
 Q midpt of  $\overline{ZY}$



Prove:  $\overline{PO} \cong \overline{OQ}$

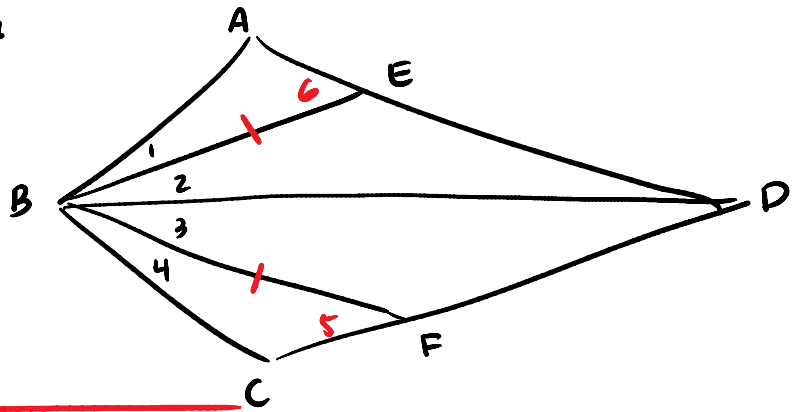
#10

- Pt A is reflected across the y axis to point B  
 $(-1, 4)$
- Pt A is rotated w/ respect to the origin,  $90^\circ$  clockwise to point C.  $(4, -1)$
- A is slid 2 units up and then 7 units to the right to pt. D.  
 $(8, 6)$



#12 Given:  $\angle 1 \cong \angle 2 \cong \angle 3 \cong \angle 4$   
 $\overline{BE} \cong \overline{BF}$

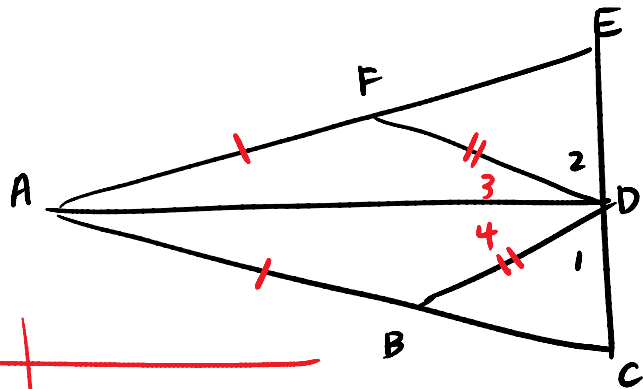
Conc:  $\triangle ABE \cong \triangle CBF$



1.  $\angle 1 \cong \angle 2 \cong \angle 3 \cong \angle 4$
2.  $\overline{BE} \cong \overline{BF}$
3.  $\overline{BD} \cong \overline{BD}$
4.  $\triangle EBD \cong \triangle FBD$
5.  $\angle BED \cong \angle BFD$
6.  $\angle BED$  is supp. to  $\angle 6$
7.  $\angle BFD$  is supp. to  $\angle 5$
8.  $\angle 5 \cong \angle 6$
9.  $\triangle ABE \cong \triangle CBF$

1. Given
2. Given
3. Reflexive prop
4. SAS
5. CPCTC
6. If 2  $\angle$ 's form a str.  $\angle \rightarrow \angle$ 's supp.
7. " "
8. If 2  $\angle$ 's are supp to  $\cong \angle$ 's  $\rightarrow \angle$ 's  $\cong$
9. ASA

#15 Given:  $\overline{AB} \cong \overline{AF}$   
 $\overline{BD} \cong \overline{DF}$   
 $\angle 1 \cong \angle 2$   
 Conc.  $\overline{AD} \perp \overline{CE}$



1.  $\overline{AB} \cong \overline{AF}, \overline{BD} \cong \overline{DF}$
2.  $\angle 1 \cong \angle 2$
3.  $\overline{AD} \cong \overline{AD}$
4.  $\triangle AFD \cong \triangle ABD$
5.  $\angle 3 \cong \angle 4$
6.  $\angle EDA \cong \angle CDA$
7.  $\angle EDA$  and  $\angle CDA$  are  $\perp$ 's
8.  $\overline{AD} \perp \overline{EC}$

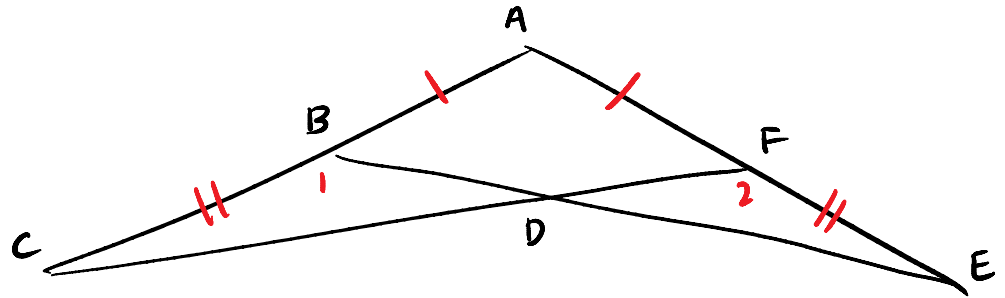
1. Given
2. Given
3. Reflexive prop
4. SSS
5. CPCTC
6. Addition prop.
7. If 2  $\angle$ 's are supp +  $\cong \rightarrow \perp$ 's
8. If 2 segs intersects to form  $\perp$ 's  $\rightarrow$  segs  $\perp$

#20

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

$\overline{BC} \cong \overline{FE}$

Conc:  $\overline{CD} \cong \overline{DE}$



1.  $\overline{AB} \cong \overline{AF}$
2.  $\overline{BC} \cong \overline{FE}$
3.  $\overline{AC} \cong \overline{AE}$
4.  $\angle A \cong \angle A$
5.  $\triangle CAF \cong \triangle EAB$
6.  $\angle C \cong \angle E$
7.  $\angle ABD \cong \angle AFD$
8.  $\angle ABD$  is supp to  $\angle 1$
9.  $\angle AFD$  is supp to  $\angle 2$
10.  $\angle 1 \cong \angle 2$
11.  $\triangle BCD \cong \triangle FED$
12.  $\overline{CD} \cong \overline{DE}$

1. Given
2. Given
3. Addition prop.
4. Reflexive prop.
5. SAS
6. CPCTC
7. CPCTC
8. If 2  $\angle$ 's form a str.  $\angle \rightarrow \angle$ 's supp
9. " "
10. If 2  $\angle$ 's are supp to  $\cong \angle$ 's  
 $\rightarrow \angle$ 's  $\cong$
11. ASA
12. CPCTC