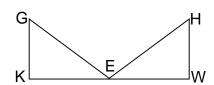
Notes 5.3-5.6B Showing Triangle Congruence; Triangle Proofs

F	Objective:	
1. a)	a) State the congrueb) How are the trian	ent parts. gles congruent?
b)		$\overline{\Diamond}$
2. a)		A
b)		D ² F
b)		
b)		
c) 3. a) — F	2. a)	P
c) 3. a) ——————————————————————————————		
3. a) F	b)	s R Q
F	c)	
F		
F		. – – – – – – – – -
	3. a)	
		E
		+ +
b)		

EXAMPLES: Mark the drawing to show the given information and

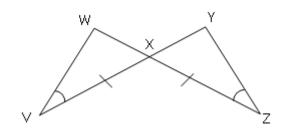
fill in the blanks.

4. E is the midpoint of KW.
∠KEG ≅ ∠WEH, and ∠K ≅
∠W.



 Δ KEG $\cong \Delta$ ______ by _____.

5. $\overline{VX} \cong \overline{ZX}$ and $\angle V \cong \angle Z$.



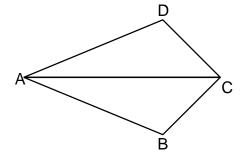
 Δ VXW \cong Δ _______ by ______.

EXAMPLE 6:

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

 $\overline{\mathsf{DC}}\cong\overline{\mathsf{BC}}$

Prove: $\triangle ADC \cong \triangle ABC$



STATEMENTS	REASONS

Notes 5.3-5.6B Showing Triangle Congruence; Priangle Proofs

		_		_	 		
	v	Λ	ΝЛ	П		7	-
_	A	Д	Μ	\mathbf{r}	_		-
	<i>-</i> •	•				•	-

Given: \overline{AC} bisects $\angle DAB$

∠1 ≅ ∠2

Prove: $\triangle ABC \cong \triangle ADC$

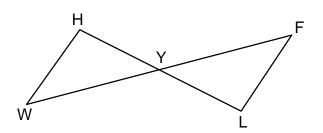
STATEMENTS	REASONS

EXAMPLE 8:

Given: $\overline{HY} \cong \overline{LY}$

 $\overline{\mathsf{WH}} \, \, || \, \, \overline{\mathsf{LF}}$

Prove: $\Delta WHY \cong \Delta FLY$



STATEMENTS	REASONS
EXAMPLE 9:	В

Given:

 $\frac{\text{C is the midpoint of}}{\text{BD}}$; C is the midpoint of AE.

Prove: $\triangle ABC \cong \triangle EDC$

STATEMENTS	REASONS
	1