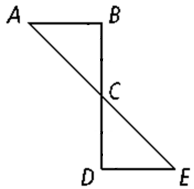


## Triangle Congruence Proofs

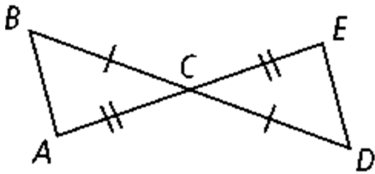
Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

- 1) Given:  $\overline{BD} \perp \overline{AB}$ ,  $\overline{BD} \perp \overline{DE}$ ,  
 $\overline{BC} \cong \overline{DC}$   
 Prove:  $\angle A \cong \angle E$



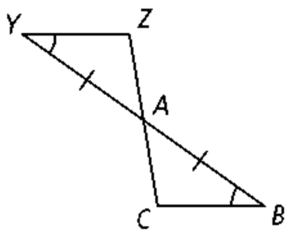
Statements	Reasons

- 2) Given:  $\overline{BC} \cong \overline{DC}$ ,  $\overline{AC} \cong \overline{EC}$   
 Prove:  $\triangle ABC \cong \triangle EDC$



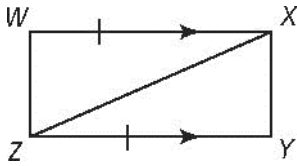
Statements	Reasons

- 3) Given:  $\overline{YA} \cong \overline{BA}$ ,  $\angle B \cong \angle Y$   
 Prove:  $\overline{AZ} \cong \overline{AC}$



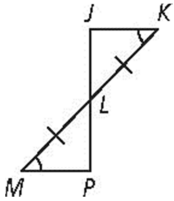
Statements	Reasons

- 4) Given:  $\overline{WX} \parallel \overline{YZ}, \overline{WX} \cong \overline{YZ}$   
 Prove:  $\triangle WXZ \cong \triangle YZX$



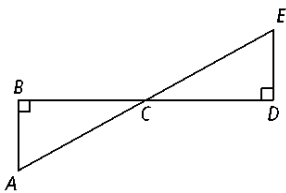
Statements	Reasons

- 5) Given:  $\angle K \cong \angle M, L$  is midpoint of  $\overline{KM}$   
 Prove:  $\triangle JKL \cong \triangle PML$



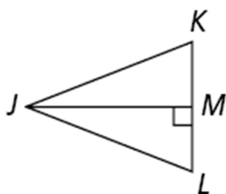
Statements	Reasons

- 6) Given:  $\angle B$  and  $\angle D$  are right angles.  
 $\overline{AE}$  bisects  $\overline{BD}$   
 Prove:  $\triangle ABC \cong \triangle EDC$



Statements	Reasons

- 7) Given:  $\overline{JM}$  bisects  $\angle J, \overline{JM} \perp \overline{KL}$   
 Prove:  $\triangle JMK \cong \triangle JML$



Statements	Reasons