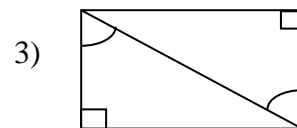
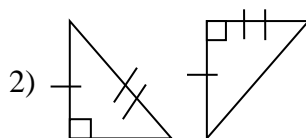
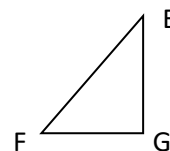
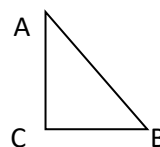


**For #1 – 3, determine whether or not each pair of triangles is congruent. If yes, tell which postulate or theorem applies.**



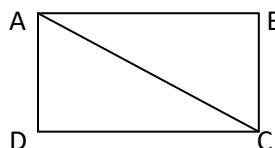
**For #4 – 7, write a two-column proof.**

4) Given:  $\overline{AC} \perp \overline{CB}, \overline{EG} \perp \overline{FG}, \overline{AB} \cong \overline{EF}$  and  $\overline{CB} \cong \overline{GF}$   
 Prove:  $\triangle ABC \cong \triangle EFG$



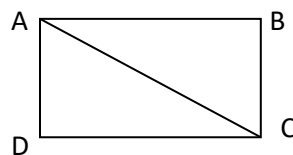
Statements	Reasons

5) Given:  $\overline{AB} \cong \overline{DC}$ ,  $\overline{AD} \perp \overline{DC}$ , and  $\overline{AB} \perp \overline{BC}$   
 Prove:  $\triangle ABC \cong \triangle CDA$



Statements	Reasons

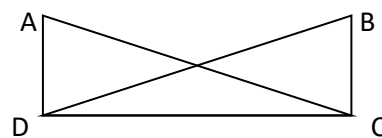
- 6) Given:  $\overline{AB} \parallel \overline{DC}$ ,  $\overline{AD} \perp \overline{DC}$ , and  $\overline{AB} \perp \overline{BC}$   
 Prove:  $\triangle ABC \cong \triangle CDA$



Statements

Reasons

- 7) Given:  $\overline{AC} \cong \overline{BD}$ ,  $\overline{AD} \perp \overline{DC}$ , and  $\overline{BC} \perp \overline{CD}$   
 Prove:  $\triangle ADC \cong \triangle BCD$



Statements

Reasons

- 8) Find the measure of the sides of triangle JKL, and then classify the triangle by its sides:  
 J(4, 6), K(4, 11), and L(9, 6)

- 9) Find  $x$  and  $y$  if  $\triangle PQS \cong \triangle RQS$ .

