1) Given: $\angle 4 \cong \angle 5, \overline{Q R} \cong \overline{S R}$

Prove: $\angle 2 \cong \angle 3$

3) In what way is $\triangle D E F$ congruent to $\triangle A B C$ ? Find the value of each of the sides in the given pair of triangles.

5) An architect used the window design in the diagram when remodeling an art studio. $\overline{A B}$ and $\overline{C B}$ each measure 3 feet. Suppose D is the midpoint of $\overline{A C}$. Determine whether $\triangle A B D \cong \triangle C B D$. Justify your answer:
2) Determine which postulate can be used to prove that the triangles are congruent.
If it is not possible to prove that they are congruent, write not possible.

4) Given: D is the midpoint of $\overline{A B}$ $\overline{A E} \perp \overline{C F} ; \overline{B F} \perp \overline{C F}$
Prove: $\overline{A E} \cong \overline{B F}$

6) An architect used the window design in the diagram when remodeling an art studio. $\overline{A B}$ and $\overline{C B}$ each measure 3 feet. Suppose $\angle A \cong \angle C$. Determine whether $\triangle A B D \cong \triangle C B D$. Justify your answer.

