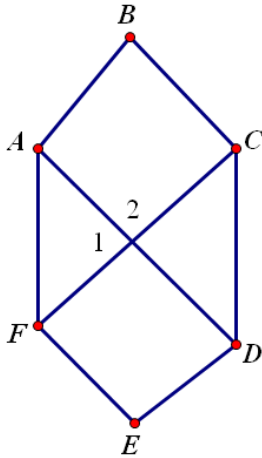


Complete each two-column proof.

1. Given: $\angle 1 \cong \angle 2$

Prove: $\overline{AD} \perp \overline{FC}$

Hint: Identify & use supplementary angles.

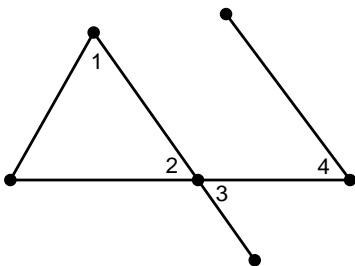


Statements	Reasons
1.	1.
2.	2.
3.	3.
4.	4.

2. Given: $\angle 1 \cong \angle 3$

Prove: $\angle 1 \cong \angle 2$

Hint: Identify and use vertical angles.

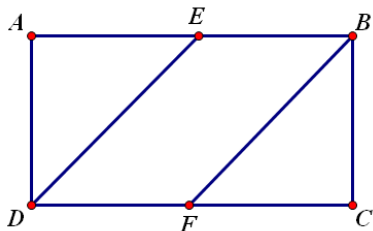


Statements	Reasons
1.	1.
2.	2.
3.	3.
4.	4.

3. Given: $\overline{AE} \cong \overline{CF}$
 \overline{DE} bisects \overline{AB}
 \overline{BF} bisects \overline{DC}

Prove: $\overline{EB} \cong \overline{DF}$

Hint: Use the "Rain-Bo" connection for each bisector and think about how to link the two conclusions.



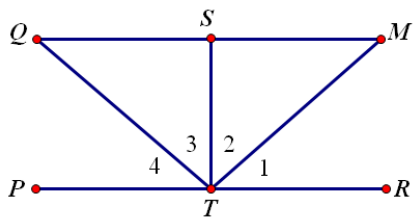
Statements

Reasons

4. Given: $\overline{ST} \perp \overline{PR}$
 \overline{ST} bisects $\angle QTM$

Prove: $\angle 1 \cong \angle 4$

Hint: Identify and use complementary angles.



Statements

Reasons