

2.5

Practice A

In Exercises 1 and 2, name the property that the statement illustrates.

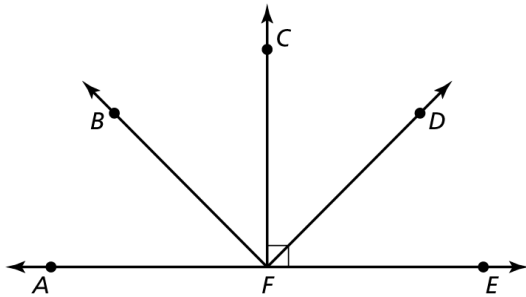
1. If $\overline{PQ} \cong \overline{RS}$, then $\overline{RS} \cong \overline{PQ}$.
2. $\angle A \cong \angle A$

In Exercises 3 and 4, write a two-column proof for this property.

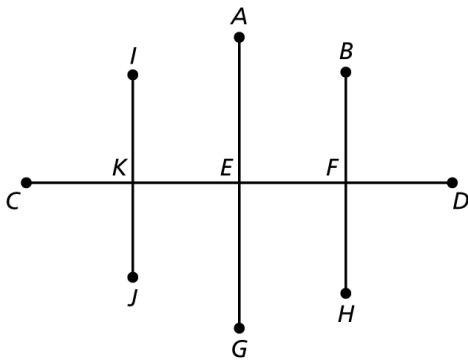
3. Symmetric Property of Angle Congruence
4. Reflexive Property of Segment Congruence

In Exercises 5 and 6, write a two-column proof.

5. Given \overline{BF} bisects $\angle AFC$ and $\angle CFD \cong \angle BFC$. Prove $\angle AFB \cong \angle CFD$.



6. Given \overline{AG} bisects \overline{CD} , \overline{IJ} bisects \overline{CE} , and \overline{BH} bisects \overline{ED} . Prove $\overline{KE} \cong \overline{FD}$.



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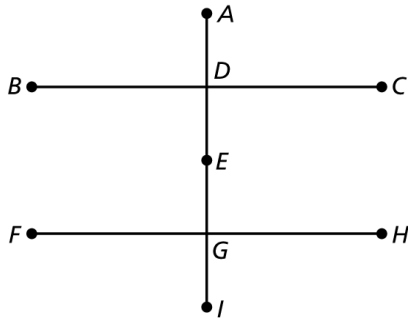
Practice B

In Exercises 1 and 2, write a two-column proof for this property.

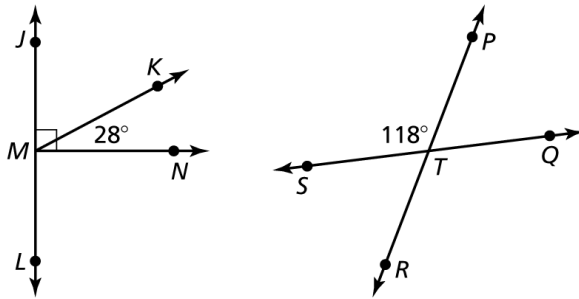
1. Symmetric Property of Segment Congruence
2. Transitive Property of Angle Congruence

In Exercises 3–5, write a two-column proof.

3. Given E bisects \overline{AI} , \overline{BC} bisects \overline{AE} , and \overline{FH} bisects \overline{EI} . Prove $\overline{AD} \cong \overline{EG}$.



4. Given $m\angle KMN = 28^\circ$ and $m\angle PTS = 118^\circ$. Prove $\angle JMK \cong \angle STR$.



5. Given $\angle ADC \cong \angle BDE$. Prove $\angle ADE \cong \angle BDC$.

