

Name _____

Date _____

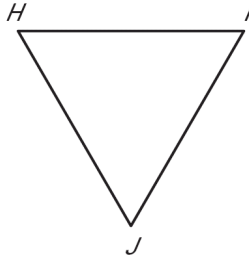
LESSON 2.6

Practice B

For use with pages 112–119

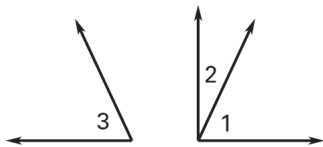
In Exercises 1–4, complete the proof.

1. **GIVEN:** $HI = 9$, $IJ = 9$, $\overline{IJ} \cong \overline{JH}$
PROVE: $\overline{HI} \cong \overline{JH}$



Statements	Reasons
1. $HI = 9$	1. <u>?</u>
2. $IJ = 9$	2. <u>?</u>
3. $HI = IJ$	3. <u>?</u>
4. <u>?</u>	4. Definition of congruent segments
5. $\overline{IJ} \cong \overline{JH}$	5. <u>?</u>
6. $\overline{HI} \cong \overline{JH}$	6. <u>?</u>

2. **GIVEN:** $\angle 3$ and $\angle 2$ are complementary.
 $m\angle 1 + m\angle 2 = 90^\circ$
PROVE: $\angle 3 \cong \angle 1$



Statements	Reasons
1. $\angle 3$ and $\angle 2$ are complementary	1. <u>?</u>
2. $m\angle 1 + m\angle 2 = 90^\circ$	2. <u>?</u>
3. $m\angle 3 + m\angle 2 = 90^\circ$	3. <u>?</u>
4. $m\angle 1 + m\angle 2 = m\angle 3 + m\angle 2$	4. <u>?</u>
5. $m\angle 1 = m\angle 3$	5. <u>?</u>
6. $\angle 1 \cong \angle 3$	6. <u>?</u>

