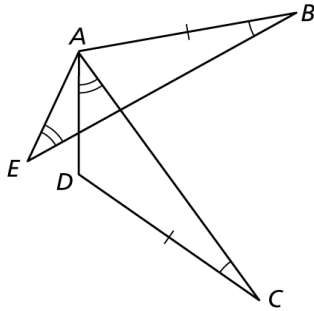


# 5.7

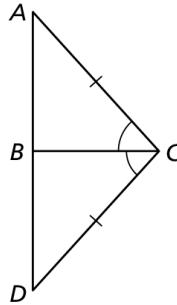
## Practice A

In Exercises 1 and 2, explain how to prove that the statement is true.

1.  $\overline{EB} \cong \overline{AC}$

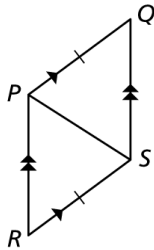


2.  $\angle A \cong \angle D$

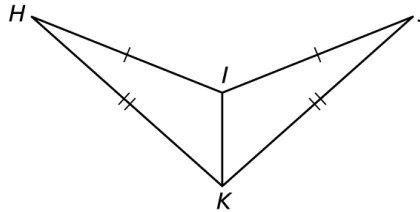


In Exercises 3 and 4, write a plan to prove the given statement.

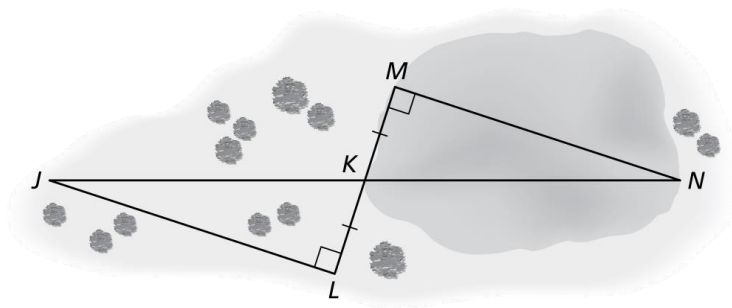
3.  $\overline{PR} \cong \overline{SQ}$



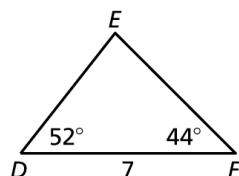
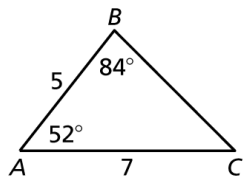
4.  $\angle H \cong \angle J$



5. Use the figure to explain how to find the distance across the pond indirectly. Then prove that your method works.



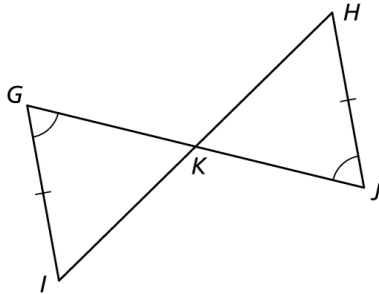
6. Find  $DE$ , if possible. Explain your reasoning.



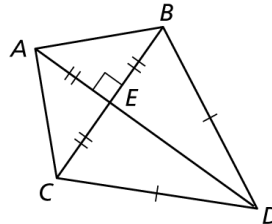
## 5.7 Practice B

In Exercises 1 and 2, explain how to prove that the statement is true.

1.  $\overline{GK} \cong \overline{JK}$

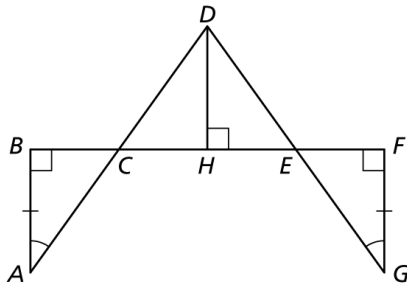


2.  $\overline{BA} \cong \overline{CA}$

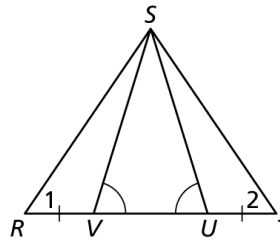


In Exercises 3 and 4, write a plan to prove the given statement.

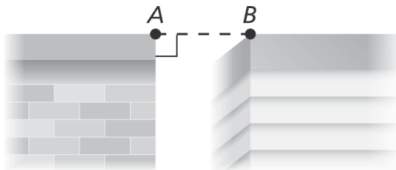
3.  $\overline{DC} \cong \overline{DE}$



4.  $\angle 1 \cong \angle 2$



5. You want to know how far it is from point  $A$  of the roof you are on to point  $B$  of the roof of the building across the street.



- Explain how to find  $AB$  directly. Draw a diagram showing the additional points you will use.
- Explain how you know your method helps you to find  $AB$ .