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.
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.

a. Explain how to find \( AB \) directly. Draw a diagram showing the additional points you will use.

b. Explain how you know your method helps you to find \( AB \).