

## Problem 5.3

### **Part A**

Use the river diagram. Which triangles appear to be similar? Explain.

### **Part B**

What is the distance across the river from Stake 1 to Tree 1? Explain.

Stretching and Shrinking

**Part C**

The diagram shows 3 stakes and 2 trees. In what order do you think Darnell, Angie, and Trevor located the key points and measured the segments?

**Part D**

Another group of students repeats the measurement. They put their stakes in different places. The distance from Stake 1 to Stake 2 is 32 feet. The distance from Stake 1 to Stake 3 is 30 feet. Does this second group get the same measurement for the width of the river? Explain.