**Homework Practice**

***Similar Triangles and Indirect Measurement***

**In Exercises 1– 4, the triangles are similar. Write a proportion and solve the problem.**

 **1. TREES** How tall is Yori?



**2. TREASURE HUNT** How far is it from the hut to the gold coins?



 **3. LAKE** How deep is the water 31.5 feet from the shore?

**4. SURVEYING** How far is it across the pond?





**For Exercise 5, draw a diagram of the situation. Then rite a proportion and solve the problem.**

 **5. ARCH** The Gateway Arch in St. Louis, Missouri, is 630 feet tall. Suppose a 12-foot-tall pole that is near the Arch casts a 5-foot shadow. How long is the Arch’s shadow?