**Similar Triangles & Indirect Measurement Practice Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\* In similar triangles, the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and**

**the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**

**Use indirect measurement to find the following.**

**1) ~ . Find the measure of .**

**2) A girl who is 4 feet tall casts a shadow that is 3 feet long. At the same time, a flagpole casts a shadow that is 15 feet long. Find the height of the flagpole.**

**3) A man who is 74 inches tall is standing next to a tree. The tree casts a shadow that is 80 inches and the man casts a shadow that is 26 inches. How tall is the tree?**

**4) ~ . Find the measure of .**