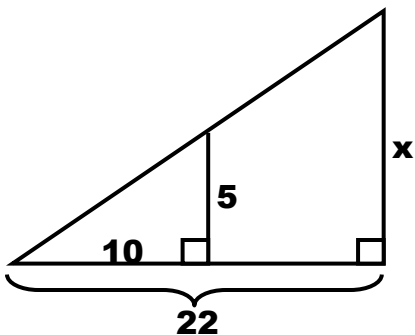


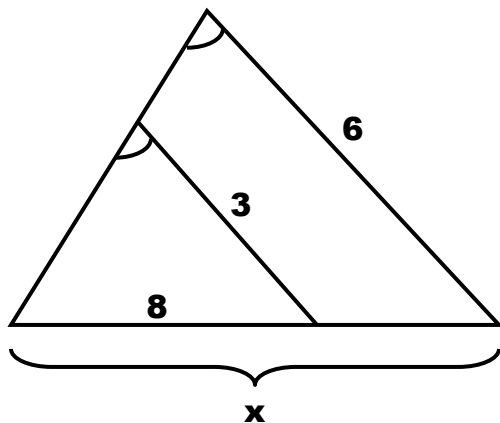
### TOPIC 7-3: INDIRECT MEASUREMENT

Similar triangles can be used in INDIRECT MEASUREMENT.  
Just be careful when you set them up!!!

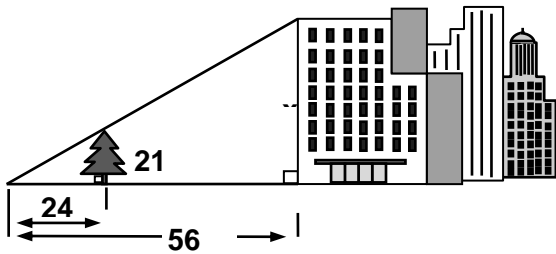
**EXAMPLE 1** Find the value of 'x'.



**EXAMPLE 2** Find the value of 'x'.



**EXAMPLE 3** Solve for 'x'.



**EXAMPLE 4**

Each time Old Faithful in Yellowstone National Park erupts, rangers can estimate the height of the geyser by comparing it to the height of a tree. First the rangers locate a tree of the same height. The shadow of the tree is 93 ft at the same time that the shadow of a 6 ft ranger is 4 ft. Find the height of the tree to the nearest foot.