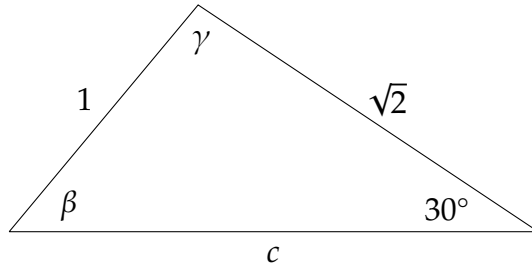




3. Determine  $\beta$ ,  $\gamma$ , and  $c$  in the triangle below. Assume that  $\beta$  is **acute**. (Not to scale.)



4. You and a friend are watching a bird flying directly overhead. When the bird is to the right of you and your friend, you measure the angle of elevation to the bird to be  $84^\circ$  while your friend measures the angle of elevation to the bird to be  $86^\circ$ . If you and your friend are standing 10 feet apart, what is the altitude of the bird in feet?