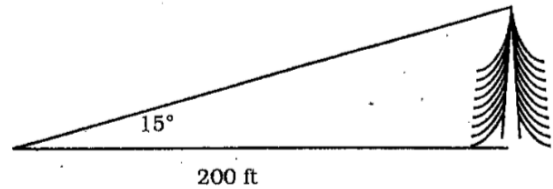
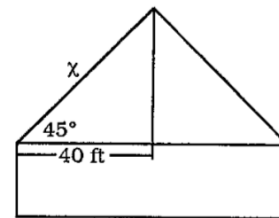


Video: CH 5 Trigonometry Applications

1. A surveyor standing 200 feet from the base of a tree has found that the angle of elevation to the top of the tree is 15° . Find the height of the tree.



2. You are designing a house in a town that gets a lot of snow. You need the roof to have at least a 45° slope. How long must the roof be if it is 40 feet from the center of the house to the outside wall?



3. A certain mountain is known to be about 3 miles high. From your location, you notice that the angle of elevation to the top of the mountain is 15° . How far are you from the bottom of the mountain?

