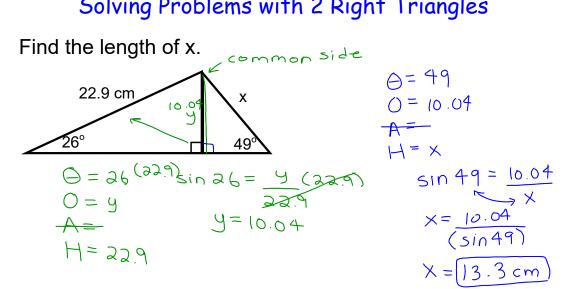
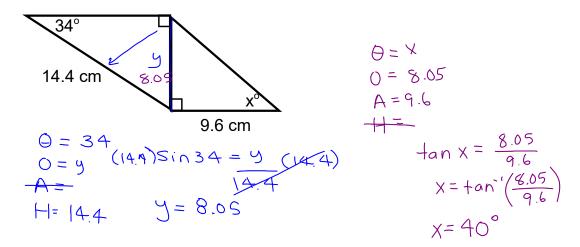
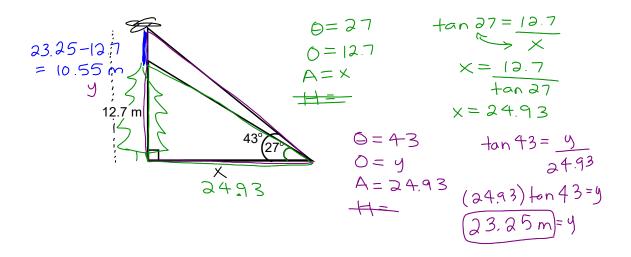
Solving Problems with 2 Right Triangles



Find the measure of angle x.



The angle of elevation of the top of a tree is 27°. From the same point on the ground, the angle of elevation of a hawk flying directly above the tree is 43°. The tree is 12.7 m tall. How high is the hawk above the ground?



From the top of an 80-ft building, the angle of elevation of the top of the taller building is 49° and the angle of depression of the base of this building is 62°. Determine the height of the taller building to the nearest foot.