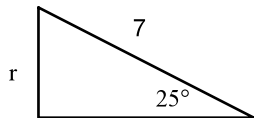
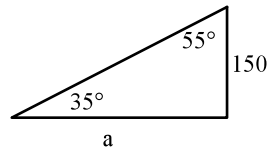


Right Triangle Application Example Problems (1.3 part 2)

Given the figures below, solve for the variable exactly. Then use your calculator to get an approximation



(a) $r =$ _____ \approx _____



(b) $a =$ _____ \approx _____

A contractor wants to measure the height of a building. He walks 50 feet from the building and measures the angle of elevation to the top of the building as 37° . Find the exact height of the building and the approximate height, correct to one decimal place.

A helicopter hovers 400 feet above a river. The angle of depression from the helicopter to the west bank is 73° , while the angle of depression from the helicopter to the east bank is 44° . Find the width of the river (exact and approximate.)