Mathematics 210G
Assignment 8: Measuring Distant Objects

The assignment is due Friday April 20.

1. You wish to measure the height of the flagpole in the middle of the horseshoe, and decide to use the same method involving shadows as Thales used. You and a friend take a 3 foot tall stick with you. You measure the length of the shadow of the flagpole and get 47 feet. At the same time your friend measures the shadow of the stick and gets 2 feet. From this information, approximately how tall is the flagpole?

Draw a picture to represent this situation, and make sure to say what mathematical facts you are using in order to come up with your answer.