

Data

What object are you measuring? _____

Make sure your object is too tall to measure with other tools!

How high is the eye level of the "measurer"? _____ft, _____in

Convert this to a decimal. (Use the table below) _____ ft

X feet, 0 in	X feet, 1 in	X feet, 2 in	X feet, 3 in	X feet, 4 in	X feet, 5 in	X feet, 6 in	X feet, 7 in	X feet, 8 in	X feet, 9 in	X feet, 10 in	X feet, 11 in
X.00 ft	X.08 ft	X.17 ft	X.25 ft	X.33 ft	X.42 ft	X.50 ft	X.58 ft	X.67 ft	X.75 ft	X.83 ft	X.92 ft



For example, if your eye level is **5 feet 2 inches** above the ground, this table tells you that is **5.17** feet

Record Your Data Below:

Trial #	Distance from Object (feet)	Angle of Elevation (degrees)
#1 (Object #1)		
#2 (object 1, different distance)		
#3 (Object #2)		
#4 (object 2, different distance)		

Calculations

What object did you measure? _____

How high is the eye level of the "measurer"? _____ feet (as a decimal)

Now you will estimate the height of two different objects in the real world environment.

1. Object #1

Distance from Object: _____

Angle of Elevation: _____

_____ ft

Sketch and label a diagram in the space below, then find the height based on your measurements.

Don't forget to incorporate your "eye-level height" in your calculations! Show work neatly.

Estimate of height of the object:

_____ ft (one decimal place)

2. Object #2

Distance from Object: _____

Angle of Elevation: _____

_____ ft

Sketch and label a diagram in the space below, then find the height based on your measurements.

Don't forget to incorporate your "eye-level height" in your calculations! Show work neatly.

Estimate of height of the object:

_____ ft (one decimal place)