## TI Technology Guide for When A Ruler Isn't Enough

## TI-83 Plus and Tl-83 Plus Silver Edition

## Using the Trigonometric Capabilities of the Handheld

The tangent and inverse tangent function capabilities of the handheld are used in this activity. Check the MODE settings to be certain that the angles are measured in degrees as shown in the screenshot.


For steps 1 and 2, you will solve your ratio for the height of the tree. For question 1, this is expressed as the product of the tangent of $54^{\circ}$ and the distance 30 feet.

For step 3, you will solve your ratio for the angle. This is expressed as the inverse of the tangent function for the ratio of 87 feet to 60 feet on part $A$.


## TI-73 Explorer

Check the MODE settings to be certain that the angles are measured in degrees as shown in the screenshot.


To access the trigonometric functions, press 2nd DRAW which displays the [TRIG] menu screen. The rest of the instructions are the same as above for the Tl-83 Plus.


