

## TI-83+ and TI-84

### Degrees-Minutes-Seconds and Radians

Where to find the necessary symbols:

- In MODE, choose between Radian and Degree.
- Access ANGLE above APPS. Within ANGLE, you will find:  
the degree symbol ( $^{\circ}$ ), the minute symbol ( $'$ ), the radian symbol ( $^{\text{r}}$ ), and  
the symbol to change to Degrees-Minutes-Seconds (**►DMS**).
- Above the  $\wedge$  key you will find the  $\pi$  symbol.
- In MATH, you will find the symbol to change to a decimal form (**►Dec**).
- In CATALOG, you will find the symbol for seconds ( $''$ ). Scroll up from the words beginning with A.

Examples:

1. Find the decimal approximation for  $46^{\circ} 30' 20''$ .  
MODE: Be in either *Radian* MODE or *Degree* MODE.  
Enter the numbers and symbols.  
Press ENTER.  
The result should be 46.50555556.
2. Change  $46.5^{\circ}$  to Degrees-Minutes-Seconds.  
MODE: Be in either *Radian* MODE or *Degree* MODE.  
Make your screen look like this:  $46.5 \blacktriangleright \text{DMS}$ .  
The result should be  $46^{\circ} 30' 0''$ .
3. Change  $46^{\circ} 30' 20''$  to radians.  
MODE: Be in either *Radian* MODE or *Degree* MODE.  
Do the steps in #1 above, and then multiply the answer by ( $\pi/180$ ).  
The result should be .8116750649.
4. Change  $46.507^{\circ}$  to radians.  
MODE: Be in either *Radian* MODE or *Degree* MODE.  
Make your screen look like this: **(46.507) (  $\pi/180$  )**  
The result should be .8117002752.
5. Change .81158 radians to degrees.  
**MODE: Degrees**  
The home screen should eventually look like this: **.81158<sup>r</sup>**  
The result should be 46.50010874.
6. Change .81158 radians to Degrees-Minutes-Seconds.  
**MODE: Degrees**  
The home screen should eventually look like this. **.81158<sup>r</sup> ►DMS**  
The result should be  $46^{\circ} 30' 0.391''$