## TI-86 Degrees-Minutes-Seconds and Radians

## Important symbols and where to find them:

- **DMS** can be found in MATH-ANGLE.
- $\pi$  can be found above the ^.
- The minute symbol (') can be found in MATH-ANGLE.
- **Dec** can be found in in BASE-CONV.
- Find the decimal approximation for 46° 30' 20". Either Degree or Radian MODE is fine. Enter the numbers and symbols. Press ENTER. The result should be 46.5055555556.
- Change 46.5° to Degrees-Minutes-Seconds. Either Degree or Radian MODE is fine. Make the home screen look like this: 46.5 ► DMS The result should be 46° 30' 0".
- Change 46° 30' 20" to radians. Either Degree or Radian MODE is fine. There is no special function on the calculator to handle the conversion. Just do the math as indicated here: The home screen should eventually look like this: (46' 30' 20') (π/180) The result should be .811675064914.
- 4. Change 46.507° to radians.
  Either Degree or Radian MODE is fine.
  There is no special function on the calculator to handle the conversion. Just do the math as indicated here: (46.507) (π/180)
  The result should be .811700275225.
- 5. Change .81158 radians to Degrees.
   We must be in Degree MODE.
   The home screen should eventually look like this: .81158 <sup>r</sup> or .81158 <sup>r</sup> ► DMS depending on which form you would like for your answer.
   The result should be 46.500087372 or 46° 30' 0.391"
- Add 46° 30' 20" + 10° 40' 50".
  Either Degree or Radian MODE is fine.
  The home screen should eventually look just like this: 46' 30' 20' + 10' 40' 50'
  The result should be approximately 57.186111111.
- 7. Change the result of problem 6 to Degrees-Minutes-Seconds.
   The home screen should look like this if coming directly from the example above: Ans ► DMS.
   The result should be 57° 11' 10".