

What is 6 radians in DMS? 1080 degrees? 360 degrees? 343 degrees 46 minutes and 29 seconds? What would be the appropriate answer for using MyMathLabs, if you are aware of how the program functions?

What is 6 radians in DMS?

$1 \pi$  radian = 180 degrees

This equates 1 radian to  $180/\pi$  degrees.

So 6 radians =  $6 \cdot 180/\pi = 1080/\pi = 343.774677$  degrees to 6 dp

To convert to degrees minutes and seconds:

343 is the degrees

$0.774677 \cdot 60 = 46.48062$  so 46 minutes

$0.48062 \cdot 60 = 28.8372$  seconds

So we get: 343 degrees 46 minutes 28.8372 seconds

1080 degrees in DMS is 1080 degrees

360 degrees in DMS is 260 degrees

343 degrees 46 minutes and 29 seconds in DMS is 343 degrees 46 minutes and 29 seconds.