## EXERCISES FOR WEEK 3

Find the exact values of the edge-length, total surface area, volume, radius of insphere, and dihedral angle of neighboring faces of the regular icosahedron ( 20 faces) which is inscribed inside the unit sphere.

[Note]: You may look at the following page for an alternate method (answers using this approach will not be accepted):
http://mathworld.wolfram.com/Icosahedron.html
but pay attention that you need to scale the " $R$ " (circumraidus) there to be 1 for our answers.

