

```
////////// Student //////////

import Foundation

let name = "Aaron Anderson"
let email = "irvingmichael@gmail.com"
let section = "2015 Summer MW 5:30pm"

// Done!
////////// Surface Area //////////

func sphereSurfaceAreaWithRadius(sphereRadius: Double) -> Double {
    let  $\pi$  = M_PI
    return 4 *  $\pi$  * pow(sphereRadius, 2)
}

//
////////// Volume //////////

func sphereVolumeWithRadius(sphereRadius: Double) -> Double {
    let  $\pi$  = M_PI
    return (4/3) *  $\pi$  * pow(sphereRadius, 3)
}

//
////////// Output //////////

func outputSphereCalculations(sphereRadius: Double) {
    println("Sphere")
    println("=====")
    println(String(format: "Radius: %.1f", sphereRadius))
    println(String(format: "Surface: %.10f", sphereSurfaceAreaWithRadius
        (sphereRadius)))
    println(String(format: "Volume: %.10f", sphereVolumeWithRadius(sphereRadius)))
}

//
////////// Startup //////////

func calculateSphereVolumeAndSurfaceArea() {
    outputSphereCalculations(12.0)
    outputSphereCalculations(2.0)
    outputSphereCalculations(4.5)
}

calculateSphereVolumeAndSurfaceArea()

//
////////// Verification //////////
/*
```

Write function, then test just that function with several values confirming with website below. Rinse, repeat for each function.

<http://www.calculatorsoup.com/calculators/geometry-solids/sphere.php>

*/
//