

Solutions for these problems are only presented during the Problem Solving Sessions W5-6 in SS 2135. You are strongly encouraged to work through the problems ahead of time, and our TA Yiannis will cover the questions you are most interested in. These sessions are very valuable at developing the proper style to present cogent and rigorous mathematical solutions.

This problem solving session contains material from 5.5 and 5.7.

**Problems:**

1. Question 2 on §5.5: change the surface  $S$  to be the boundary of the portion of the sphere which falls in the first Octant ( $x, y, z \geq 0$ ).
2. §5.7 question 6.
3. §5.7 question 7.