**Worksheet 22**

1. Compute  where G is a pyramid with edges at points:. **Hint**: Sketch the domain to define G.
2. Use polar coordinates to compute  where .
3. Find volume of intersection between balls  and .
4. Use spherical coordinates to solve 
5. 
6. 
7. 
8. Compute, where R is a quart of the unit circle in the first quadrant.
9. Given  find  if possible
   1. 
   2. 
   3. 