Lista 4

1. Determine o centro de massa do hemisfério sólido de raio R e densidade constante (Figura 1).

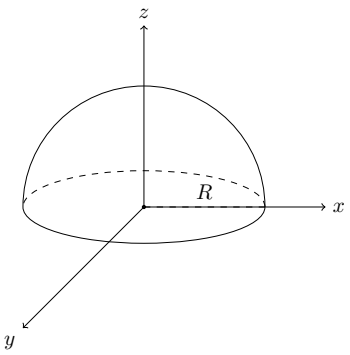

Figura 1

2. Calcula I_{zz}, I_{xz} e I_{yz} para

   a) o cilindro de raio R e altura L (Figura 2) ,

   b) o cubo de lado L (Figura 3),

   c) a esfera de raio R (Figura 4).

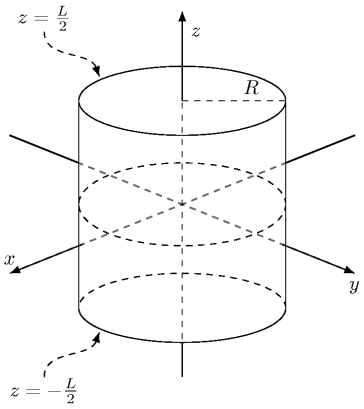

Figura 2

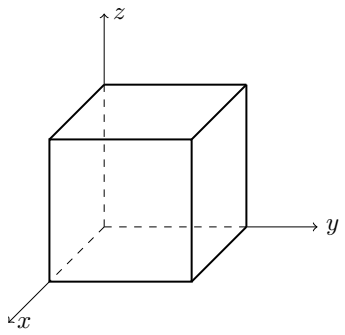

Figura 3

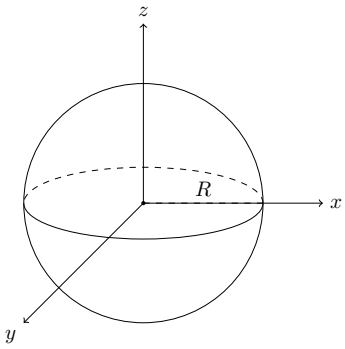

Figura 4