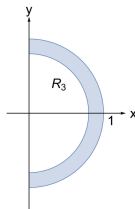
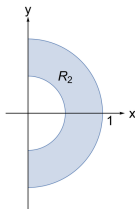
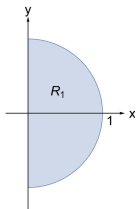


# Applications of Double Integrals



## Question

The centroid of each of the regions  $R_i$  shown has the form  $(\bar{x}_i, 0)$ , for  $i = 1, 2, 3$ . How do the numbers  $\bar{x}_i$  compare?



- A.  $\bar{x}_1 < \bar{x}_2 < \bar{x}_3$       B.  $\bar{x}_1 = \bar{x}_2 = \bar{x}_3$   
C.  $\bar{x}_1 > \bar{x}_2 > \bar{x}_3$       D.  $\bar{x}_2 < \bar{x}_1 < \bar{x}_3$