

King Fahd University of Petroleum & Minerals  
Department of Mathematics and Statistics  
(Semester 152) Math 102 Quiz # 1

Name: \_\_\_\_\_ I.D. # \_\_\_\_\_ Sr. # \_\_\_\_\_

Construct the Riemann sum for  $f(x) = 16 - x^2$  on  $[1, 4]$ , taking the  $n$  sample points to be the midpoints of the subintervals, then evaluate  $\int_1^4 f(x) dx$  as the limit of the obtained Riemann sum.