

King Fahd University of Petroleum & Minerals
Department of Mathematics and Statistics
(Semester 131) Math 102.10 Quiz # 1

Name: _____ I.D. # _____ Sr. # _____

1. Find the average value of $f(x) = \sqrt{16 - x^2}$ on $[-4, 0]$.
2. Find the slope of the tangent line to $y = \int_{2^x}^1 \sqrt[3]{t} dt$ at $x = 3$.

King Fahd University of Petroleum & Minerals
Department of Mathematics and Statistics
(Semester 131) Math 102.12 Quiz # 1

Name: _____ I.D. # _____ Sr. # _____

1. Use areas to evaluate $\int_{-1}^1 (1 - \sqrt{1 - x^2}) dx$.

2. Find $f(2)$ if $\int_{x^2}^1 f(t) dt = \cos(\pi x)$.