

King Fahd University of Petroleum & Minerals
Department of Mathematics and Statistics
(Semester 152) Math 102 Quiz # 2

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

1. Evaluate $\int_{-1/2}^{1/2} x^6 \sin^{-1} x \, dx$

2. Evaluate $\int_0^1 \frac{dx}{(1+\sqrt{x})^4}$

3. Evaluate $\frac{d}{dx} \int_{1-3x}^1 \frac{t^3}{1+t^2} \, dt$

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

1. Evaluate $\int_0^1 x(x-1)^{100} \, dx$

2. Evaluate $\int_{-1/4}^{1/4} \frac{\sin^{-1} x}{\sqrt{x^2+1}} \, dx$

3. Evaluate $\frac{d}{dx} \int_{\sin x}^{1/2} \sqrt{1+t^2} \, dt$