

King Fahd Univ. of Petroleum and Minerals
Faculty of Sciences
Department of Mathematical Sciences

QUIZ No. 2
(MATH. 102-051 Sections 4)

Name:

ID:

Prob. 1

Evaluate

$$\int_0^3 \left| \frac{1}{\sqrt{2-x^2}} - \sqrt{3} \right| dx$$

Prob.2

Find

$$\int_{-3/2}^3 \frac{f(\sqrt{2x+3})}{\sqrt{2x+3}} dx$$

if $\int_0^3 f(x) dx = 7$

Prob. 3

Find

$$\lim_{h \rightarrow 0} \frac{1}{h} \int_x^{x+h} e^{-t^2} dt$$