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

QUIZ No. 2
(MATH. 102-042 Sections 1 & 2)

Name:
ID:

Prob. 1
Evaluate
a)
$$\int \frac{dx}{\sqrt{x}(\sqrt{x}+1)}$$
b)
$$\int \frac{\sin(\ln x^3)dx}{x}$$

Prob. 2
Let R be the region bounded by $y = 9 - x^2$ and $y = 0$. Find the volume of the solid obtained by revolving R about
a) $y = 13$
b) $x = 5$