

KFUPM
Mathematics & Statistics

Term 172
MATH 102

Date: 4/4/2018
Duration: 20 minutes

Quiz# 6

Name:

ID #:

Section:

Q1: Evaluate $\int 4 \sin^4 t \, dt$

Q2: Evaluate $\int \frac{x^2+4x+1}{(x-1)(x^2+3)} \, dx$

Q3. Evaluate $\int_0^2 \frac{7}{x-1} dx$

Q4. Find the value of a so that the length of the arc on the curve $y = \cosh(x)$ from the point $P(0,1)$ to the point $Q(\ln a, \frac{a+a^{-1}}{2})$ is 2.