## $\begin{array}{c} KFUPM-Department\ of\ Mathematics\ and\ Statistics-Term\ 151\\ \hline \textbf{MATH\ 102}\\ \textbf{QUIZ\ \# 3\ Code\ 1}\ \ (Duration=20\ minutes) \end{array}$

NAME:	ID:	Section:
Exercise 1 (5 points)		
Evaluate $I = \frac{1}{4} \int \frac{x^2 dx}{\sqrt{x^2 - 4}} [\mathbf{I}$	lint: use trigonometric substitution and next	integration by part]

Exercise 2 (5 points)
$$\text{Evaluate } \int \frac{x^2 + x + 5}{x^3 + x^2 + 4x + 4} dx$$

## KFUPM – Department of Mathematics and Statistics – Term 151 MATH 102 QUIZ # 3 Code 2 (Duration = 20 minutes)

NAME:	ID:	Section:
Exercise 1 (5 points)		
Evaluate $I = \frac{1}{9} \int \frac{x^2 dx}{\sqrt{x^2 + 9}}$ [Hint: use triple]	gonometric substitution a	and next integration by part]

Exercise 2 (5 points)
$$Evaluate \int \frac{x^2 + x + 8}{x^3 - x^2 + 9x - 9} dx$$

## KFUPM – Department of Mathematics and Statistics – Term 151 MATH 102 QUIZ # 3 Code 3 (Duration = 20 minutes)

NAME:	ID:	Section:
Exercise 1 (5 points)		
Evaluate $I = \frac{1}{16} \int \frac{x^2 dx}{\sqrt{x^2 + 16}}$ [Hi	int: use trigonometric substitution and	next integration by part]

Exercise 2 (5 points)
$$\text{Evaluate } \int \frac{x^2 + x + 8}{x^3 - x^2 + 9x - 9} dx$$

## KFUPM – Department of Mathematics and Statistics – Term 151 MATH 102 QUIZ # 3 Code 4 (Duration = 20 minutes)

NAME:	ID:	Section:
Exercise 1 (5 points)		
Evaluate $I = \frac{1}{25} \int \frac{x^2 dx}{\sqrt{x^2 - 25}} $ [H	int: use trigonometric substitution and	d next integration by part]

Exercise 2 (5 points)
$$\text{Evaluate } \int \frac{x^2 + x + 5}{x^3 + x^2 + 4x + 4} dx$$