KFUPM – Department of Mathematics and Statistics – Term 161

MATH 102

QUIZ # 1 Code 1 (Duration = 20 minutes)

NAME:_____ ID:_____ Section: _____

Exercise 1 (5 points)

Express the limit $Lim\sum_{i=1}^{n}\frac{i}{n^2}\cos(\frac{i\pi}{n})$ as a definite integral.

Exercise 2 (5 points)

Evaluate the definite integral $\int_0^4 (x+\sqrt{16-x^2})dx$ [Hint: interpreted as area]

KFUPM – Department of Mathematics and Statistics – Term 161

MATH 102

QUIZ # 1 Code 2 (Duration = 20 minutes)

NAME:_____ ID:_____ Section: _____

Exercise 1 (6 points)

Express the limit $Lim\sum_{i=1}^{n}\frac{i}{n^2}\sin(\frac{i\pi}{n})$ as a definite integral

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Exercise 2 (5 points)

Evaluate the definite integral $\int_{-5}^{0}(-x+\sqrt{25-x^2})dx$ [Hint: interpreted as area]