KFUPM – Department of Mathematics and Statistics – Term 151

MATH 102

QUIZ # 4 Code 1 (Duration = 20 minutes)

NAME:_____ ID:_____ Section: _____

Exercise 1 (4 points)

Determine whether the series $\sum_{n=2}^{\infty} \frac{1}{n\ln(n)}$ is convergent or divergent.

Exercise 2 (3 points)

Determine whether the series $\sum_{n=1}^{\infty} \frac{e^n}{n^n}$ is convergent or divergent.

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Exercise 3 (3 points)

Determine whether the series $\sum_{n=1}^{\infty} \frac{(-3)^n}{n!}$ is convergent or divergent.

KFUPM – Department of Mathematics and Statistics – Term 151

MATH 102

QUIZ # 4 Code 2 (Duration = 20 minutes)

NAME:_____ ID:_____ Section: _____

Exercise 1 (4 points)

Determine whether the series $\sum_{n=1}^{\infty} \frac{\sin(n)}{n^2}$ is convergent or divergent.

Exercise 2 (3 points)

Determine whether the series $\sum_{n=1}^{\infty} [1 - \ln(2 + \frac{1}{n})]^n$ is convergent or divergent.

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Exercise 3 (3 points)

Determine whether the series $\sum_{n=1}^{\infty} \frac{(-2)^n}{(n+1)!}$ is convergent or divergent.