KFUPM – Department of Mathematics and Statistics – Term 132

MATH 102

QUIZ5 # Code 1 (Duration = 15 minutes)

NAME:_____ ID:_____ Section: _____

Exercise 1 (5 points)

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

Exercise 2 (5points)

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

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MATH 102

QUIZ # 5 Code 2 (Duration = 15 minutes)

NAME:_____ ID:_____ Section: _____

Exercise 1 (5points)

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

Exercise 1 (5 points)

Determine whether the series $\sum_{n=1}^{\infty} \left(\frac{4}{3} - \frac{\ln(1+n)}{n} \right)^n$ is convergent or divergent.