KFUPM – Department of Mathematics and Statistics – Term 151

MATH 102

QUIZ # 5 Code 1 (Duration = 15 minutes)

NAME:_____ ID:_____ Section: _____

Exercise 1 (5 points)

Find the radius and the interval of convergence of the power series $\sum_{n-1}^{\infty} \frac{(x-2)^n}{n3^n}$

Exercise 2 (5 points)

Find the sum of the series $\sum_{n=0}^{\infty} \frac{(-\pi^2)^n}{(2n+1)(16)^n}$.

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MATH 102

QUIZ # 5 Code 2 (Duration = 15 minutes)

NAME:_____ ID:_____ Section: _____

Exercise 1 (5 points)

Find the radius and the interval of convergence of the power series $\sum_{n-1}^{\infty} \frac{(x-1)^n}{(n+1)2^n}$

Exercise 2 (5points)

Find the sum of the series $\sum_{n=0}^{\infty} \frac{(-\pi^2)^n}{(2n+1)!4^n}$.

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MATH 102

QUIZ # 5 Code 3 (Duration = 15 minutes)

NAME:_____ ID:_____ Section: _____

Exercise 1 (5 points)

Find the radius and the interval of convergence of the power series $\sum_{n-1}^{\infty} \frac{(x+1)^n}{n2^n}$

Exercise 2 (5 points)

Find the sum of the series $\sum_{n=0}^{\infty} \frac{(-4)^n(\pi^2)^n}{(2n)!}$.

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MATH 102

QUIZ # 5 Code 4 (Duration = 15 minutes)

NAME:_____ ID:_____ Section: _____

Exercise 1 (5 points)

Find the radius and the interval of convergence of the power series $\sum_{n-1}^{\infty} \frac{(x-5)^n}{(n+1)2^n}$

Exercise 2 (5 points)

Find the sum of the series $\sum_{n=1}^{\infty} \frac{(-2)^n}{n3^n}$.