

NAME: _____ ID: _____ Section: _____

Exercise 1 (5 points)

Test the series $\sum_{n=1}^{+\infty} \frac{(-1)^n + \tan(n\pi)}{n^2 + 1}$ (show all your steps)

Exercise 2 (5 points)

Test the series $\sum_{n=2}^{+\infty} \frac{1}{n^2 - 2n + 2}$ (show all your steps)

NAME: _____ ID: _____ Section: _____

Exercise 1 (5 points)

Test the series $\sum_{n=1}^{+\infty} \frac{-2}{n^2 + n}$ (show all your steps)

Exercise 2 (5 points)

Test the series $\sum_{n=1}^{+\infty} \frac{(-1)^n + \cot\left(\left(n + \frac{1}{2}\right)\pi\right)}{n^3 + 1}$ (show all your steps)

KFUPM – Department of Mathematics and Statistics – Term 091

MATH 102

QUIZ # 3 Code 3 (Duration = 20 minutes)

NAME: _____ ID: _____ Section: _____

Exercise 1 (5 points)

Test the series $\sum_{n=2}^{+\infty} \frac{(-1)^n + \cos\left(\left(n + \frac{1}{2}\right)\pi\right)}{n^3 - 1}$ (show all your steps)

Exercise 2 (5 points)

Test the series $\sum_{n=1}^{+\infty} \frac{n}{n^2 + 1}$ (show all your steps)

