KFUPM – Department of Mathematics and Statistics – Term 173

MATH 101

QUIZ # 5: Code 1 (Duration = 20 minutes)

NAME:_____ ID:_____ Section: _____

Exercise 1 (5points)

Find intervals where the function $f(x)\frac{x}{\sqrt{4-x^2}}$ *is increasing and decreasing and precise whether the function has local extremums*

Exercise 2 (5points)

Find intervals where the function $f(x)\frac{x}{\sqrt{4-x^2}}$ *is concave up and concave down and precise whether the function has inflection points*

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QUIZ # 5: Code 2 (Duration = 20 minutes)

NAME:_____ ID:_____ Section: _____

Exercise 1 (5 points)

Find intervals where the function $f(x) = \frac{x}{\sqrt{9-x^2}}$ *is increasing and decreasing and precise whether the function has local extremums*

Exercise 2 (5 points)

Find intervals where the function $f(x) = \frac{x}{\sqrt{9-x^2}}$ *is concave up and concave down and precise whether the function has inflection points*