KFUPM | Term 161 | Date: 25/12/2016

Mathematics & Statistics | MATH 101 | Duration: 20 minutes

Quiz# 6 A

Name: | ID #: | Section:

1. Find the absolute maximum and absolute minimum values of the function f(x) over the given interval? $f(x) = 3x^2 - 12x + 5$ [0,3]

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2. Let $f(x) = \alpha x^2 + \beta x + \gamma$ where $\alpha \neq 0$, β & γ are constants. The value of c that satisfies the conclusion of the Mean Value Theorem for f on the interval [3,7] is

3. Find the inflection points of the function $f(x) = x^2 - 18\ln(x)$ (if exist)

4. Find the local Minimum & Local Maximum points of the function

$$f(x) = x^4 - 4x^3 + 4x^2 + 4$$