

King Fahd University of Petroleum and Minerals

Math 101

Quiz # 5(a)

Time: 20 minutes

Date: 5-5-2015

Name	ID #	Sr #	Sec.12	Marks:
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Q1. Find the critical points of $f(x) = x^3 - 12x + 100$ and identify the intervals on which f is increasing and on which f is decreasing.

Q 2. Find the intervals of concavity and inflection points of the curve

$$y = x^4 - 4x^3.$$

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Quiz # 5(b)

Time: 20 minutes

Date: 5-5-2015

Name	ID #	Sr #	Sec. 12	Marks:
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Q1. Find the critical points of $f(x) = (x^2 - 3)e^x$ and identify the intervals on which f is increasing and on which f is decreasing.

Q 2. Find the intervals of concavity and inflection points of the curve

$$y = x^3 - 12x + 1.$$

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Quiz # 5(c)

Time: 20 minutes

Date: 5-5-2015

Name	ID #	Sr #	Sec. 13	Marks:
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Q1. Find the critical points of $f(x) = (x^2 - 2)e^x$ and identify the intervals on which f is increasing and on which f is decreasing.

Q 2. Find the intervals of concavity and inflection points of the curve

$$y = 5 - 3x^2 + x^3.$$

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Quiz # 5(d)

Time: 20 minutes

Date: 5-5-2015

Name	ID #	Sr #	Sec. 13	Marks:
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Q1. Find the critical points of $f(x) = x^3 - 9x + 4$ and identify the intervals on which f is increasing and on which f is decreasing.

Q 2. Find the intervals of concavity and inflection points of the curve

$$x^4 - 2x^2 + 3$$