King Fahd	University	of Petroleum	and Minerals

Math 101	Quiz # 4(a)	Time: 20 minutes	Date: 11-12-2014
Name	ID #	Sr # Se	ec. 09 Marks:
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Q1. Find the absolute maximum value of f(x) = 5x(2 - lnx) on the interval $[1, e^2]$.

Q 2. Find the critical points of $f(x) = x^{1/3}(x+8)$. Identify the intervals on which f is increasing and decreasing. Find the function's local extreme values.

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Math 101	Quiz # 4(b)	Time: 20 minutes	Date: 11-12-2014
Name	ID #	Sr # Sec	c. 09 Marks:

Q1. Find the absolute maximum and minimum values of $f(x) = x^{2/3}$ on the interval [-2,2].

Q 2. Find the critical points of $f(x) = x^{1/3}(x^2 - 4)$. Identify the intervals on which f is increasing and decreasing. Find the function's local extreme values.

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Math 101	Quiz # 4(c)	Time: 20 minut	tes	Date: 11-12-2014
Name	ID #	Sr #	Sec. 21	Marks:

Q1. Find the absolute maximum and minimum values of $f(x) = -3x^{2/3}$ on the interval [-1,1].

Q 2. Find the critical points of $f(x) = 4\sqrt{x} - x^2 + 3$. Identify the intervals on which f is increasing and decreasing. Find the function's local extreme values.

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Math 101	Quiz # 4(d)	Time: 20 minutes	s Date: 11-12-2014
Name	ID #	Sr # So	ec. 21 Marks:

Q1. Find the absolute maximum value of f(x) = 10x(2 - lnx) on the interval $[1, e^2]$.

Q 2. Find the critical points of $f(x) = x^{2/3}(x^2 - 4)$. Identify the intervals on which f is increasing and decreasing. Find the function's local extreme values.