King Fahd University of Petroleum and Minerals

Math 101 Quiz # 2(a) Time: 20 minutes Date: 4-11-2014

Name	ID #	Sr #	Sec. 09	Marks:

Q1. Use limits to differentiate the function $y = 1 + \sqrt{x}$ and find the slope of the tangent line at $x = 2$.

Q 2. Find the derivatives of all orders of the function $y = (x - 1)(x^2 + 3x - 2)$.

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Math 101 Quiz # 2(b) Time: 20 minutes Date: 4-11-2014

Name	ID #	Sr #	Sec. 09	Marks:

Q1. Use limits to differentiate the function $y = \frac{x+3}{1-x}$ and find the slope of the tangent line at $x = -2$.

Q 2. Find all points (x, y) on the graph of $y = \frac{x}{x-2}$ with tangent lines perpendicular to the line $y = 2x + 3$.

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Math 101 Quiz # 2(c) Time: 20 minutes Date: 4-11-2014

Name	ID #	Sr #	Sec. 21	Marks:

Q1. Use limits to differentiate the function $y = \frac{1}{2+x}$ and find the slope of the tangent line at $x = 3$.

Q 2. Find all points (x, y) on the graph of $y = 3x^2 - 4x$ with tangent lines parallel to the line $y = 8x + 5$.

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Math 101 Quiz # 2(d) Time: 20 minute Date: 4-11-2014

Name	ID #	Sr #	Sec. 21	Marks:

Q1. Use limits to differentiate the function $y = \frac{1}{2+x}$ and find the slope of the tangent line at $x = 3$.

Q 2. Find the derivatives of all orders of the function $y = (x-1)(x^2 + x - 1)$.