King Fahd University of Petroleum and Minerals

Math 101 Quiz # 2(a) Time: 20 minutes Date: 26-2-2015

Name	ID #	Sr #	Sec. 13	Marks:

Q1. Use Intermediate Value Theorem to prove that the equation $\cos x = x$ has a solution.

Q 2. Compute $\lim_{x\to\infty}\left(\sqrt{x^2+\pi}-x\right)$.

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Math 101 Quiz # 2(b) Time: 20 minutes Date: 26-2-2015

Name	ID #	Sr #	Sec. 13	Marks:

Q1. Use Intermediate Value Theorem to prove that the equation $x^4 + x - 3 = 0$ has a solution.

Q2. Find the horizontal asymptotes of the graph of the function $f(x) = \frac{\sqrt{2x^2+1}}{3x-5}$.

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Math 101 Quiz # 2(c) Time: 20 minutes Date: 26-2-2015

Name	ID #	Sr #	Sec. 12	Marks:

Q1. Use Intermediate Value Theorem to prove that the equation $\sqrt[3]{x} = 1 - x$ has a root.

Q2. Find the vertical asymptotes of the graph of the function $f(x) = \frac{\sqrt{2x^2+1}}{3x-5}$.

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Math 101 Quiz # 2(d) Time: 20 minutes Date: 26-2-2015

Name	ID #	Sr #	Sec. 12	Marks:

Q1. Use Intermediate Value Theorem to prove that the equation $x^2 - \cos\pi x = 4$ has a root.

Q 2. Compute $\lim_{x\to\infty}\left(\sqrt{x^2+e}-x\right)$.