King Fahd University of Petroleum & Minerals
Department of Mathematics and Statistics
Math101/Calculus I
Quiz 1
Two Problems, September 6th, 2015 [1]

Problem 1 (10 **points**)

Find the following limits.

(1) $\lim\limits_{x \to 1} \dfrac{3 - \sqrt{4x+5}}{1-x} =$

(2) $\lim\limits_{x \to 1} \dfrac{2x^2 - 3x + 1}{x^2 + x - 2} =$

Problem 2 (5 **points**)

Use the Squeeze Theorem to find $\lim\limits_{x \to 0} x^2 sin(\dfrac{1}{x})$.

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[1]The quiz lasts 15 minutes.