

King Fahd University of Petroleum & Minerals
Department of Mathematical Sciences

Math 101 - 7
Dr. Jawad Y. Abuhlail

Quiz # 6

Semester 031

Name:

ID #:

Section #:

1. Show that

$$\frac{d}{dx} \sin^{-1} x = \frac{1}{\sqrt{1-x^2}} \quad \forall x \in (-1, 1).$$

2. Find

$$\lim_{x \rightarrow 0^+} \frac{\ln^2 x}{x}$$