

King Fahd University of Petroleum and Minerals

MATH-101

Dr. Ahmad Al-Dweik

Quiz 2

Name:-

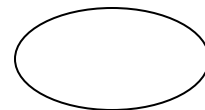
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Q1 (5 points) Find the vertical and horizontal asymptotes for the function

$$y = \frac{x^3 - 1}{x^3 - x} .$$



Q.2 (5 points) The displacement (in meters) of a particle moving in a straight line is given by $s = \frac{1}{\sqrt{5-t}}$ where t is measured in seconds. Use limits to find the instantaneous velocity of the particle when $t = 1$.

