KFUPM	MATH101	Quiz#2	Sec. 2
Name			<u>Sr.#</u>
1)	Use the graph of $f(x) = \frac{1}{x}$ to find a number	δ such that If $ x - 3 < \delta$	then $\left \frac{1}{x} - \frac{1}{3}\right < \frac{1}{5}$.

1) **Q2** Show that the equation $e^x = 4 - x - \sqrt{x}$ has at least one real solution between 0 and 1.

2) Find the horizontal and vertical asymptotes of the curve $y = \frac{\sqrt{2x^6 + x^3}}{-3x^3 + x - 1}$

3) Evaluate $\lim_{n \to 0} [|sinx|]$