

Math Analysis Semester 2 Study Guide

Roots/ Polynomials:

If $f(x)$ is a polynomial of degree n where $n > 0$, then f has at least one zero in the complex # system.

Know Rational Root Theorem: (factors of last co-efficient/factors of 1st co-efficient)

Know Polynomial Division:

$$\text{Ex. } f(x) = x^3 + 11x^2 + 39x + 29$$

Use Rational Root Theorem... to get: $\pm 29, \pm 1$ as factors

$$\begin{array}{r|rrrr} -1 & 1 & 11 & 39 & 29 \\ & & -1 & -10 & -29 \\ \hline & 1 & 10 & 29 & 0 \end{array}$$

$$(x^2 + 10x + 29)(x + 1)$$

Then use the quadratic formula

Rational Functions and Asymptotes:

Vertical Asymptotes: where denominator = 0 (only after factoring and canceling)

Holes (deleted pts): are what cancels out

Horizontal Asymptotes: the # you approach as $|x| \rightarrow \infty$ (only look @ the dominant term then cancel)

- Steps:
1. factor numerator + denominator
 2. Write restrictions (what makes denominator = 0)
 3. Cancel (the holes).
 4. Denominator = 0 after canceling are the vertical asymptotes.

$$\text{Ex. } f(x) = \frac{x^2+2x}{2x^2-x} = \frac{x(x+2)}{x(2x-1)} \quad x \neq 0, \frac{1}{2} \quad f(x) = \frac{x+2}{2x-1} \quad \text{hole: } x = 0 \quad \text{Vertical Asymptote: } x = \frac{1}{2}$$

$$\text{Horizontal Asymptote: } y = \frac{1}{2}$$

BE ABLE TO GRAPH BY HAND AND STATE THE DOMAIN

Math Analysis Study Guide

Peipei Pang



Math Analysis Study Guide:

Embracing the Beat of Term: An Psychological Symphony within **Math Analysis Study Guide**

In some sort of eaten by monitors and the ceaseless chatter of fast conversation, the melodic splendor and psychological symphony produced by the published term often fade into the back ground, eclipsed by the relentless noise and disruptions that permeate our lives. Nevertheless, situated within the pages of **Math Analysis Study Guide** a charming fictional value overflowing with organic thoughts, lies an immersive symphony waiting to be embraced. Constructed by an outstanding musician of language, that captivating masterpiece conducts visitors on an emotional journey, well unraveling the hidden melodies and profound impact resonating within each carefully constructed phrase. Within the depths of the moving review, we can investigate the book is central harmonies, analyze its enthralling publishing type, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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