

Chapter 9 Rational Functions

Section 9.1 Exploring Rational Functions Using Transformations

Section 9.1 Page 442 Question 1

Compare each graph to the function form $y = \frac{a}{x-h} + k$.

a) Since the graph of the rational function has a vertical asymptote at $x = -1$ and a horizontal asymptote at $y = 0$, $h = -1$ and $k = 0$. Then, the function is of the form

$$y = \frac{a}{x+1}, \text{ which is } B(x) = \frac{2}{x+1}.$$

b) Since the graph of the rational function has a vertical asymptote at $x = 0$ and a horizontal asymptote at $y = -1$, $h = 0$ and $k = -1$. Then, the function is of the form

$$y = \frac{a}{x} - 1, \text{ which is } A(x) = \frac{2}{x} - 1.$$

c) Since the graph of the rational function has a vertical asymptote at $x = 0$ and a horizontal asymptote at $y = 1$, $h = 0$ and $k = 1$. Then, the function is of the form

$$y = \frac{a}{x} + 1, \text{ which is } D(x) = \frac{2}{x} + 1.$$

d) Since the graph of the rational function has a vertical asymptote at $x = 1$ and a horizontal asymptote at $y = 0$, $h = 1$ and $k = 0$. Then, the function is of the form

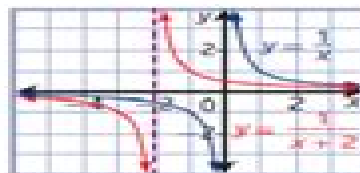
$$y = \frac{a}{x-1}, \text{ which is } C(x) = \frac{2}{x-1}.$$

Section 9.1 Page 442 Question 2

a) The base function for $y = \frac{1}{x+2}$ is $y = \frac{1}{x}$. Compare the

function to the form $y = \frac{a}{x-h} + k$: $a = 1$, $h = -2$, and $k = 0$.

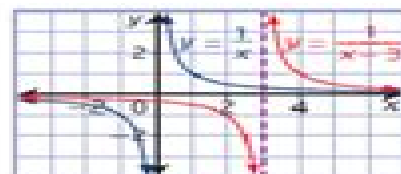
The graph of the base function must be translated 2 units to the left. So, the vertical asymptote is at $x = -2$ and the horizontal asymptote is still at $y = 0$.



b) The base function for $y = \frac{1}{x-3}$ is $y = \frac{1}{x}$. Compare the

function to the form $y = \frac{a}{x-h} + k$: $a = 1$, $h = 3$, and $k = 0$.

The graph of the base function must be translated 3 units to the right. So, the vertical asymptote is at $x = 3$ and the horizontal asymptote is still at $y = 0$.



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Students' Concepts of Rational Functions as Developed in a Computer Graphing Environment Jennifer Jean Hooper,1996 Certain Uniform Functions of Rational Functions, by Emory P. Starke ... Emory Potter Starke,1927

Rational Expressions, Part 1 , When one polynomial is divided by another the result is called a rational function because it is the ratio of two polynomials These functions play an important role in algebra Learn how to add and subtract rational functions by first finding their common divisor **Rational Expressions, Part 2** , Continuing your exploration of rational expressions try your hand at multiplying and dividing them The key to solving these complicated looking equations is to proceed one step at a time Close the lesson with a problem that brings together all you ve learned about rational functions

Sums of Rational Functions James Wells Ratcliffe,2012 Given a rational function ϕ with rational coefficients that is defined at every positive integer we consider the sum of $\phi(n)$ as n runs from 0 to infinity It is believed that when this sum converges it converges to either a rational or transcendental number We prove an analogue of this conjecture over fields of rational functions Let K be a field and let ϕ be a rational function with coefficients in K such that $\phi(0) \neq 0$ Given a positive integer d greater than or equal to 2 we define $F_d(\phi)$ to be the sum of $\phi(n)$ to the power of d to the n th power as n runs from 0 to infinity If d is not a power of $\text{char } K$ then $F_d(\phi)$ is either a rational function or transcendental over K Our demonstration uses results from the theory of automatic sequences and from commutative algebra **Calculus of rational functions**

,1982 **Some normal families of rational functions** Herbert Oscar Muecke,1968 **Certain Rational Functions Whose Power Series Have Positive Coefficients** ,1970 Permutable Rational Functions Joseph Fels Ritt,1928 **Best Approximation to Some Rational Functions** Stanley Joseph Poreda,1970 **A Note on the Integration of Rational Functions** Padmini T. Joshi,1977 **Properties and Applications of Rational Functions** Thomas Jefferson

Washington,1956 *The Rational Function Analogue of a Question of Schur and Exceptionality of Permutation Representations* Ricardo Donato Salvatore,Robert M. Guralnick,2014-09-11 Investigates the analogous question for rational functions This book describes the Galois theoretic translation based on Chebotarev's density theorem leads to a certain property of permutation groups called exceptionality On the Univalence of Rational Functions Dragoslav S. Mitrović,1979 On a Series of Rational Functions Formally Analogous to Fourier's Series William Phillip Udinski,1925

Random Iteration of Rational Functions David Simmons,2012 *On the Iteration of Rational Functions* Joseph Fels Ritt,1920* **Noncommutative Rational Functions and Their Finite-dimensional Representations** Jurij Volčič,2017 Noncommutative rational functions form a free skew field a universal object in the category of skew fields They emerge in various branches of pure and applied mathematics such as noncommutative algebra automata theory control theory free analysis free real algebraic geometry and free probability A noncommutative rational function is given by a formal rational expression involving freely noncommuting variables and arithmetic operations which can be naturally evaluated at tuples of

matrices of all sizes This dissertation studies such finite dimensional evaluations with the goal of determining what information about the structure of the free skew field can be recovered from them Firstly a matrix coefficient realization theory is developed which for an arbitrary noncommutative rational function yields an efficiently computable normal form Such a realization of a noncommutative rational function measures its complexity and describes its natural domain as the complement of a free singularity locus of a linear matrix pencil The inclusion problem for free loci and thus for domains of noncommutative rational functions is next solved in terms of epimorphisms between the coefficient algebras of the corresponding linear matrix pencils This theorem called a Singularitätssatz for linear matrix pencils is closely related to the invariant theory of the general linear group Via realization theory this result yields an algebraic characterization of noncommutative rational functions with a given domain More over a description of noncommutative rational functions whose domains contain all tuples of hermitian matrices is derived In particular it is proven that an everywhere defined noncommutative rational function is a noncommutative polynomial The understanding of the behavior of noncommutative rational functions under hermitian evaluations is further advanced by the resolution of an noncommutative analog of Hilbert s 17th problem a noncommutative rational function that is positive semidefinite at every tuple of hermitian matrices is a sum of hermitian squares of noncommutative rational functions Finally the construction of the free skew field via matrix evaluations is extended to partially commuting arguments The obtained multipartite rational functions play a remarkable role in the theory of universal skew fields of fractions and in the difference differential calculus in free analysis

Value Distribution of Sequences of Rational Functions Michail Sodin, 1990 *Automatic Sequences, Rational Functions and Geometry* Antje J. Petersen, 1997

Exploring Rational Functions Tesccc Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Exploring Rational Functions Tesccc**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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