

- \* A rational function is a function which can be defined by a rational fraction, i.e. an algebraic fraction such that both the numerator and the denominator are polynomials.
- \* If a function has a polynomial in its \_\_\_\_\_, the graph of the function is discontinuous at each zero of the polynomial (in the denominator). The gap could be a one-point \_\_\_\_\_ in the graph, or it could be the location of a \_\_\_\_\_ for the graph.

$$y = \frac{x^2}{x^2 + 1}$$

$$y = \frac{(x+3)(x+2)}{(x+2)}$$

$$y = \frac{x+4}{x-2}$$

No value of  $x$  will make the denominator zero

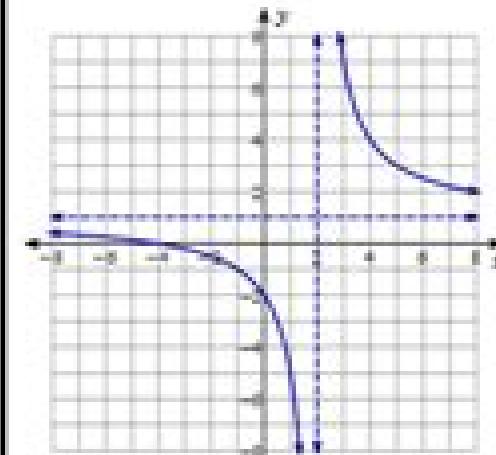
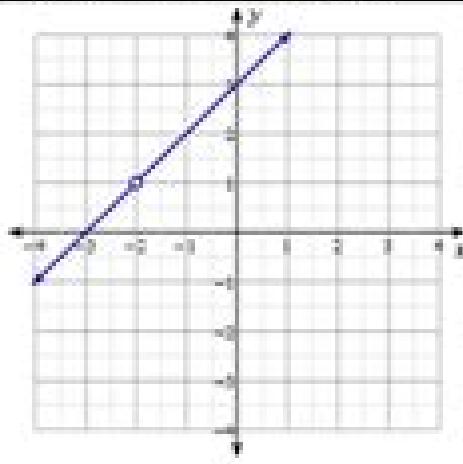
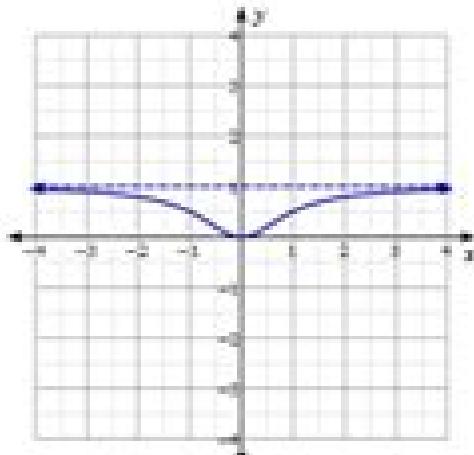
$$x \neq \underline{\hspace{1cm}}$$

$$x \neq \underline{\hspace{1cm}}$$

Continuous Graph (No jumps, breaks, or holes)

Removable Discontinuity  
(We can redefine at  $x = -2$  so that there is no break.)

Non-Removable Discontinuity at  $x = 2$ . No way to redefine function at 2.



# Applications Of Rational Functions Key

**M. G. Settle**

## **Applications Of Rational Functions Key:**

**Instructor's Manual with Test Bank to Accompany Functions Modeling Change** Connally,1999-12-15 *Algebra for College Students* Margaret L. Lial,E. John Hornsby,Terry McGinnis,2008 The Lial series has helped thousands of readers succeed in developmental mathematics through its approachable writing style relevant real world examples extensive exercise sets and complete supplements package Review of the Real Number System Linear Equations Inequalities and Applications Graphs Linear Equations and Functions Systems of Linear Equations Exponents Polynomials and Polynomial Functions Factoring Rational Expressions and Functions Roots Radicals and Root Functions Quadratic Equations and Inequalities Additional Functions and Relations Inverse Exponential and Logarithmic Functions More on Polynomial and Rational Functions Conic Sections Further Topics in Algebra For all readers interested in Algebra *Intermediate Algebra with Early Functions* James W Hall,1995 This popular pedagogically rich mainstream text in intermediate algebra was one of the first on the market to introduce functions early in Chapter 2 Graphing of linear systems is also introduced early in the text and the optional use of graphing calculators is now integrated throughout *Course Integration Guide to Accompany College Algebra with Trigonometry* Vincent Barnett,2000-12 *Algebra Essentials and Applications* Joseph C. Power,2001

*Theory of Random Functions and Its Application to Problems of Automatic Control* Vladimir Semenovich Pugachev,1961 *A Graphical Approach to Precalculus* E. John Hornsby, Jr.,Margaret L. Lial,1996 *Algebra Facts* Theodore John Szymanski,1993 Provides easy access to the most crucial concepts and formulas in basic algebra **Elementary and Intermediate Algebra** Alan S. Tussy,R. David Gustafson,2001-08 This book has been designed to present the material reinforce major concepts and test student understanding using a variety of instructional methods and features The authors had seven objectives in writing this text 1 To teach students the language of algebra how to read write speak and think mathematically Graphics examples and Study Sets throughout text emphasize key phrase and translation 2 To use a group of fundamental algebraic concepts as the foundation of the text introduce equations variables problem solving functions and graphing in Chapter 1 and constantly reinforce those major concepts of algebra throughout the text Key Concept feature 3 To aid student comprehension and confidence by introducing concepts in one context and revisiting throughout the book in other contexts coverage of problem solving is one good example 4 To gain and keep students attention through creative applications See any Applications section in Study Sets an interactive approach to instruction Self Checks and a visually appealing design 5 To have top notch problem sets purposefully named Study Sets not Problem or Exercise Sets that break learning into smaller pieces so that students do not become overwhelmed 6 To constantly show how the material being studied can be used to solve real world problems 7 To blend traditional and reform instructional approaches from vocabulary practice and well defined pedagogy to place an emphasis on problem solving reasoning communicating and technology Study Sets *Abstracts of Papers Presented to the American Mathematical Society* American Mathematical Society,2006

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