

- \* 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

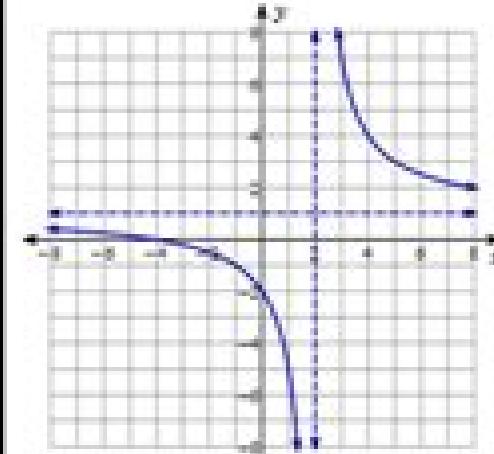
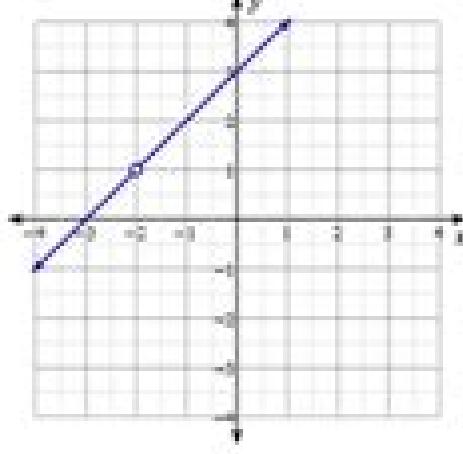
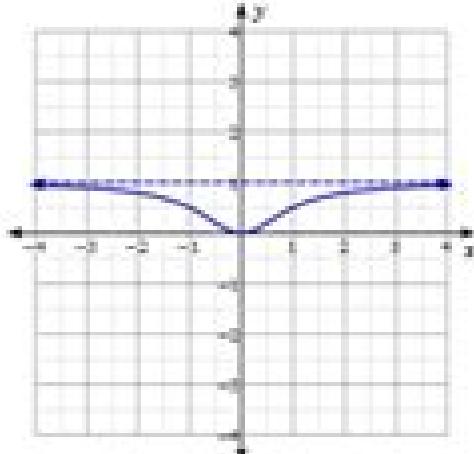
$$x \neq \underline{\hspace{1cm}}$$

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

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

**Tussy**

## **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

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