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## Graphing a rational function

### Algebra 2 Graphing Rational Functions

Let's do a couple more examples graphing rational functions. So let's say I have  $y$  is equal to  $\frac{2x}{x+1}$ . So the first thing we might want to do is identify our

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horizontal asymptotes, if there are any. And I said before, all you have to do is look at the highest degree term in the numerator and the denominator.

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Graphing rational functions 2

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(video) | Khan Academy

If  $f(x)$  represents a rational expression, then  $y = f(x)$  is a rational function. To graph a rational function, first find values for which the function is undefined. A function is undefined for any values that would make

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any denominator become zero. Dashed lines are drawn on the graph for any values for which the rational function is undefined. These lines are called vertical asymptote lines.

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Graphing Rational Functions -  
CliffsNotes

Graphing rational functions according to asymptotes. (Opens a modal) Graphs of rational functions: y-intercept. (Opens a modal) Graphs of rational functions: horizontal asymptote.

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(Opens a modal) Graphs of rational functions: vertical asymptotes. (Opens a modal) Graphs of rational functions: zeros.



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How To: Given a graph of a rational function, write the function. Determine the factors of the numerator. Examine the behavior of the graph at the  $x$ -intercepts to determine the zeroes and their multiplicities.

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(This is easy to do when finding the “simplest” function with small multiplicities—such as 1 or 3—but may be difficult for larger multiplicities—such as 5 or 7, for example.)

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Graph rational functions | College Algebra

1)  $f(x) = \frac{x}{x-1}$  2)  $f(x) = \frac{x}{x-2}$  3)  $f(x) = \frac{x}{x-3}$   
4)  $f(x) = \frac{x}{x-4}$

Identify the points of discontinuity, holes, vertical asymptotes, and horizontal asymptote of each. Then sketch

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the graph. 5)  $f(x) = \frac{x}{x - y}$ .

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Each Group is Given a Rational  
Function and must: Find and  
locate the x- and y-intercepts.

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Find the Domain and Range. Find and graph Horizontal Asymptote and the Vertical Asymptote. Graph the Functions. The project can be a race to see which team can complete the task first.

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Algebra 2 - 8.2/8.3 Worksheet.  
Match the function with its graph.

\_\_\_\_\_ 1. \_\_\_\_\_ 2. \_\_\_\_\_ 3. \_\_\_\_\_ 4.  
\_\_\_\_\_ 5. \_\_\_\_\_ 6.

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Graphing Rational Functions -  
Travellin

This Slideshow was developed to  
accompany the textbook. Larson  
Algebra 2. By Larson, R., Boswell,  
L., Kanold, T. D., & Stiff, L. 2011

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Rational Equations and Functions  
- Andrews University

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tutorial explains how to graph  
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asymptotes and holes. It shows you how to identify the vertical asy...

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Graphing Rational Functions With  
Vertical, Horizontal ...

RATIONAL FUNCTIONS AND THEIR

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Discontinuity - the point at  $x =$   
where the function is undefined  
(point where the denominator =  
0). It is like a hole in the graph at  
 $x =$  . Asymptote - the line that the  
graph of the function approaches

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but never touches or crosses.

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Functions - Asymptotes and Holes  
Sketch the graph of the rational  
function

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$$f(x) = \frac{x-2}{x^2-3x-4}$$

Solution. We will follow the outline presented in the Procedure for Graphing Rational Functions. Step 1: First, factor both numerator and denominator.

$$f(x) = \frac{x-2}{(x+1)(x-4)}$$

Step 2: Thus,  $f$  has two

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restrictions,  $x = -1$  and  $x = 4$ .

That is, the domain of  $f$  is

$$\{(D_{\{f\}} = \{s : x \neq -1, 4\})\}.$$

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7.3: Graphing Rational Functions -  
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Algebra 2: Section 7.2 - Graphing

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Unit 5 - Rational Functions -  
Algebra 2

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From Step 2 we saw we only have one vertical asymptote and so we only have two regions to our graph :  $(x < 1)$  and  $(x > 1)$ . We'll need a point in each region to determine if it will be above or below the horizontal asymptote. Here are a couple of function

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Algebra - Rational Functions  
(1) Using a graphing utility,  
create a table of values by  
assigning values to. Refer to the  
table below. (2) Plot each ordered



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Functions Answers  
pair and connect the points using a smooth curve. Note that since the denominator is undefined when  $x = -2$  and when  $x = 3$ , the graph has three parts.

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