

Name:

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Topic:

Class:

Main Ideas/Questions

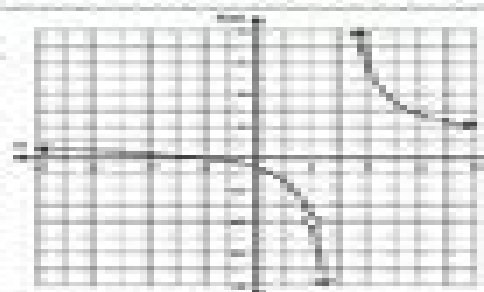
Notes/Examples

## KEY FEATURES of Rational Functions

A rational function is a function of the form  $f(x) = \frac{p(x)}{q(x)}$  where  $p(x)$  and  $q(x)$  are polynomial functions. So far, we have looked at the graph of a very basic rational function (a reciprocal function). Now, we will look at more complex rational functions and their key features: x-intercepts, vertical asymptotes, horizontal asymptotes, and holes. A hole is a point  $(x, y)$  at which there is a break in the graph.

Identify the key features of the rational function given each graph below.

1.  $f(x) = \frac{x^2 - 4}{x^2 - 3x + 6}$



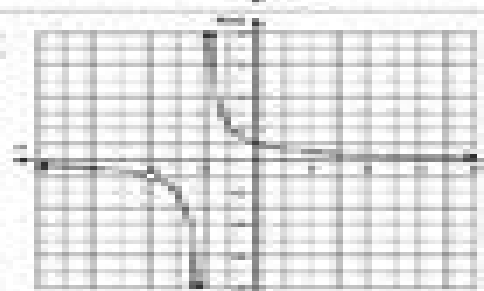
x-intercept(s):

Vertical Asymptote(s):

Horizontal Asymptote:

Hole(s):

2.  $f(x) = \frac{2x + 5}{x^2 + 8x + 8}$



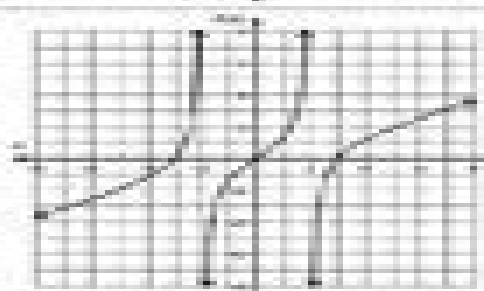
x-intercept(s):

Vertical Asymptote(s):

Horizontal Asymptote:

Hole(s):

3.  $f(x) = \frac{x^2 - 9}{2x^2 - 8}$



x-intercept(s):

Vertical Asymptote(s):

Horizontal Asymptote:

Hole(s):

# Unit 8 Lesson Rational Functions Answers

**Patrick Vollmar**



## Unit 8 Lesson Rational Functions Answers:

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