

1.9 Rational Functions and Vertical Asymptotes

1.9 Practice

AP Pre-calculus

Find the vertical asymptote(s) of the following rational function(s) and sketch.

1. $f(x) = \frac{3x^2 - 12}{x^2 - 4}$

Vertical Asymptote(s):

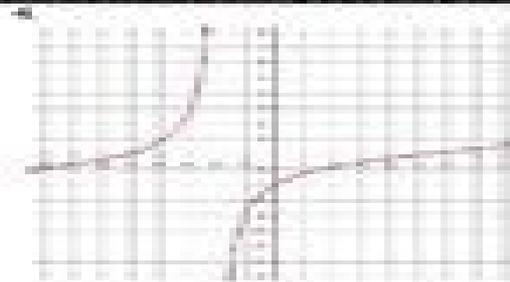
2. $g(x) = \frac{x^2 + 2x + 1}{x^2 - 9}$

Vertical Asymptote(s):

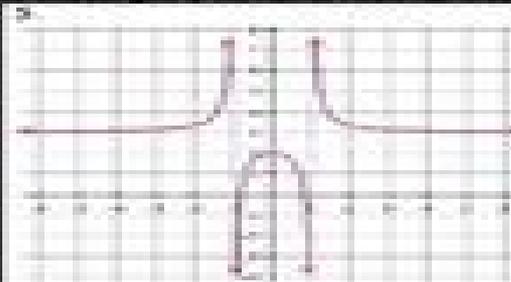
3. $h(x) = \frac{x^2 + 2x + 1}{x^2 - 9}$

Vertical Asymptote(s):

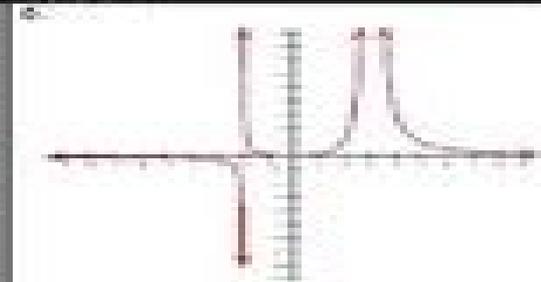
Sketch the vertical asymptote(s) of the following rational functions. Use limit notation.



Limit Notation: Vertical Asymptote(s):



Limit Notation: Vertical Asymptote(s):



Limit Notation: Vertical Asymptote(s):

CALCULATOR ACTIVE: Complete the table to answer the following.

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

x	3.9	3.99	3.999	4	4.001	4.01	4.1
$f(x)$							

Vertical Asymptote:

Limit Notation of Vertical Asymptote:

Finding Asymptotes Precalculus Unit Lesson Answer Key

J. Bryan Sullivan



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Precalculus Cynthia Y. Young, 2010-01-19 Engineers looking for an accessible approach to calculus will appreciate Young's introduction The book offers a clear writing style that helps reduce any math anxiety they may have while developing their problem solving skills It incorporates Parallel Words and Math boxes that provide detailed annotations which follow a multi modal approach Your Turn exercises reinforce concepts by allowing them to see the connection between the exercises and examples A five step problem solving method is also used to help engineers gain a stronger understanding of word problems

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