

Algebra for college students - graphs and functions

D.C. Heath - Modeling, functions, and graphs : algebra for college students (Book, 1991) [spaceneb.us.to]

Graphing Rational Functions

Continued Sketch the graph of the following rational function:

$$g(x) = \frac{(x-4)^2}{(x-2)(x-6)}$$

The degree of the numerator is 2 and the degree of the denominator is 2. That means we have a horizontal asymptote of $y = 1$ equal to the ratio of leading coefficients of numerator and denominator. The leading coefficient in the numerator is just 1 and that is also the leading coefficient in the denominator. Then $y = 1$ is the horizontal asymptote. The graph will approach that line on the outer edges.

Some important x values for us in this example are 2, 4, 6. We should plot some points around these important x values. Let's pick $x = 1, x = 3, x = 5, x = 8$ to plot. We substitute these values for x into our equation and we get these values:

$\left(1, \frac{9}{5}\right)$	$\left(3, \frac{1}{3}\right)$	$\left(5, -\frac{1}{3}\right)$	$\left(8, \frac{4}{3}\right)$
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Notes: Includes indexes.

This edition was published in 1994



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Slope and Rate of Change. Yoshiwara and Yoshiwara focus on three core themes throughout their textbook: Modeling, Functions, and Graphs.

Modeling, functions, and graphs : algebra for college students (Book, 1991) [spaceneb.us.to]

Responsibility: Katherine Franklin, Irving Drooyan.

Modeling, functions, and graphs : algebra for college students (Book, 2007) [spaceneb.us.to]

The E-mail message field is required. Description: xvii, 626, 88 pages : illustrations ; 24 cm Contents: Part One: Fundamentals.

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Summary and cumulative review for Part Three. The book pays attention to problem solving strategies and the use of estimation to support the development of critical thinking in students. Summary and cumulative review exercises for Part One.

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