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and inverse variation. Write inverse

variation equations. Classifying Direct

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that two variables x and y show direct

variation when $y = ax$ for some nonzero

constant a . Another type of variation is

called inverse variation. ... 7 Rational

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 Fall 2007 $x = 10$ $y = 10$ $x = 0$ $x = 4$ $y = 0$
 Figure 4. Placing the horizontal and
 vertical asymptotes and the x-intercept
 of the graph of the function f . At this point,
 we already have our function f loaded in
 Y1, so we can press the ZOOM button
 and select 6:ZStandard to produce the
 graph shown in Figure 5. As 7.7
 Solving Rational Equations Chapter 7 Skills
 Practice 505 7 Lesson 7.1 Skills Practice
 Name Date A Rational Existence
 Introduction to Rational Functions
 Vocabulary Write the term that best
 completes each sentence. 1. A is any
 function that can be written as the ratio
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that a function gets closer and closer to,
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 Fall 2007 $x = 5$ $y = 5$ $x = 2$ $y = 0$ Figure 1. ...
 Note the resulting y-values in the second
 column of the table (the Y1 column) in
 Figure 7(c). As x is increasing without
 bound, the y-values are greater than 1,
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 Chapter 7 Rational Functions Version:
 Fall 2007 $10x + 1 = 29$ $10x + 10 = 29x$
 $+10 = 29x$
 This equation is nonlinear (it has a power of x
 larger than 1), so make one side equal
 to zero by subtracting $29x$
 from both sides of the equation. $10x^2$
 $-29x + 10 = 0$ Let's try to use the ac-
 test to factor. Note that $a \cdot c = (10)(10) =$

100. The integer pair $\{-4, -25\}$ has product 100 and sum -29 .
 Breakout 7.8
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 $2x^2 + 8x + 15$ State all restrictions. First, factor each denominator. $4x^2 + 6x + 5$
 $2x^2 + 8x + 15$ $4(x+1)(x+5)$
 $(x+3)(x+5)$ The least common denominator, or least common multiple (LCM), requires that we
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 hat You Will Learn Graph simple rational functions. Translate simple rational functions. Graph other rational functions. Graphing Simple Rational Functions A rational function has the form $f(x) = \frac{p(x)}{q(x)}$, where $q(x) \neq 0$. $p(x)$ and $q(x)$ are polynomials and $q(x) \neq 0$.
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bound, the y-values are greater than 1, yet

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Lesson What You Will Learn What You Will Learn Classify direct and inverse variation. Write inverse variation equations. Classifying Direct and Inverse Variation You have learned that two variables x and y show direct variation when $y = ax$ for some nonzero constant a . Another type of variation is called inverse variation. ...

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Section 7.2 Reducing Rational Functions
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