

Name: _____ Date: _____

UNIT #10 – POLYNOMIAL AND RATIONAL FUNCTIONS
COMMON CORE ALGEBRA II

Part I Question

1. Which of the following is not an example of a power function?

(1) $y = \frac{x^4}{5}$

(3) $y = x^2 - 9$

(2) $y = 7\sqrt{x}$

(4) $y = \frac{3}{x}$

2. If the function $y = \frac{9}{2x^2}$ was placed in the form $y = ax^b$, where a and b are real numbers, then which of the following is the value of $a + b$?

(1) $\frac{3}{2}$

(3) 15

(2) -6

(4) $-\frac{4}{3}$

3. Which of the following power functions best describes the end behavior (also known as long-run behavior) of the polynomial $y = -3x^4 + 5x^2 + 3x - 17$?

(1) $y = x^2$

(3) $y = 3x$

(2) $y = -3x^4$

(4) $y = 5x^2$

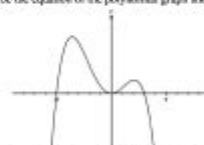
4. Which of the following could be the equation of the polynomial graph shown below?

(1) $y = x(x+5)(x-3)$

(2) $y = x(x+3)(x-5)$

(3) $y = -x^2(x+5)(x-3)$

(4) $y = x^2(x+3)(x-5)$



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Algebra 2 Rational Functions Answer Key

[Algebra 2 Rational Functions Answer](#)

Algebra 2 Rational Functions Answer

Just as the polynomials are analogous to the integers, rational functions are analogous to the rational numbers. We will learn more about this analogy as we rewrite various rational expressions, and also think about their graphical behavior.

Rational functions | Algebra 2 | Math | Khan Academy

Simplify the sum. $(d^2+4d+3)/(d^2-7d-8) + (d^2-2d-8)/(d^2+5d+6)$

Algebra 2 Rational Functions? | Yahoo Answers

$y = (-2x^3 + 12x^2 - 22x + 12) / (x^3 - 5x^2 - 4x + 20)$ That's the final answer to the first question. To make a rational function with a slant asymptote of $y = x$, you start with something...

Algebra 2 Rational Functions? | Yahoo Answers

Enjoy these free printable sheets focusing on rational expressions, typically covered unit in Algebra 2. Each worksheet has model problems worked out step by step, practice problems, as well as challenge questions at the sheets end. Plus each one comes with an answer key.

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Algebra 2 Graphing Rational Functions Answers

Kuta Software - Infinite Algebra 2 Name _____ Graphing Rational Functions Date _____ Period _____ Identify the points of discontinuity, holes, vertical asymptotes, x-intercepts, and horizontal asymptote of each. 1) $f(x) = \frac{x}{x^2 - 4}$ Discontinuities: ,

Graphing Rational Functions.ks-ia2 - Kuta

Solution for Use the given rational function to find the indicated function values. 213 -7 $f(t) = \frac{t}{t^2 - 4}$; $f(-2)$, $f(0)$, $f(3)$ %3D 2 +9 Select the correct choice below...

Answered: Use the given rational function to find... | bartleby

algebra 2, rational functions? yeah, i'm super horrible at math. if i became an actor and they asked me to cry within two seconds, i could do it just thinking about math. my glasses broke at lunch so i went to the nurse's office and they fixed them. but when i got back to class, half of math was over. so i missed the basics of what i was supposed to be learning. i think i got the second half ...

algebra 2, rational functions? | Yahoo Answers

Okay, well, I have homework to do in math, and it's over: Simple Rational Functions, and Adding/Subtracting Complex Fractions. I use the ClassZone Algebra II book, and the pages are 9.2 on page 576, and 9. 5 on page 578. If you can help me, please do, because I really need it.

Algebra 2 and Rational Functions.? | Yahoo Answers

Algebra 2 Question. Graphing rational functions.? So I need to find the asymptotes of the equation $[X^2 - 9] / [2X + 6]$ I know how to find the horizontal asymptote. It wouldn't have one b/c the degree on top is more than the one on bottom. My question is what would be the vertical asymptote b/c normally you'd have something like $[X - 3]$ on bottom and the vertical would be ...

Algebra 2 Question. Graphing rational functions.? | Yahoo ...

The Algebra 2 course, often taught in the 11th grade, covers Polynomials; Complex Numbers; Rational Exponents; Exponential and Logarithmic Functions; Trigonometric Functions; Transformations of Functions; Rational Functions; and continuing the work with Equations and Modeling from previous grades. Khan Academy's Algebra 2 course is built to deliver a comprehensive, illuminating, engaging, and Common Core aligned experience!

Algebra 2 | Math | Khan Academy

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Larson Algebra 2 Solutions Chapter 9 Rational Equations ...

Answer to Algebra Review Consider the following simplification of a rational function: $(xx - ?)(x + 3) / (x - 2)(x - 2) = x + 3$ For what value of x is this equality not

[Solved] Algebra Review Consider the following ...

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10.1 Graph Rational Functions - Algebra 2

Algebra 2 8 Rational Functions Practice Problems Page 1 of 10 8.1 Model Inverse and Joint Variation Tell whether x and y show direct variation, inverse variation, or neither. 1. $y = 1.5x$, $8 = 8$ = The variables x and y vary inversely. Use the given values to write an equation relating x and y . Then find y when $x = 3$. 3.

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