

WARM UP

1. Put the following equation in log form $7^y = 13x + 2$

2. State the restrictions on the function $f(x) = \frac{(x+2)(x-1)}{(x+7)(x-1)x}$

3. Find a common denominator for the two functions $f(x) = \frac{x+1}{x-2}$ and $g(x) = \frac{2}{x^2-4}$

4. State the domain and range for the function $f(x) = \sqrt{x+2} - 3$

Objectives

- Review Rational Functions

Homework

- Released test questions packet
 - Section I: 2, 22, 23
 - Section II: 1, 3
 - Section III: 4, 8, 9
- Any unfinished classwork problems

Schedule this week

- ✓ Monday – Quadratics and Polynomials
- ✓ Tuesday – Logs/Exponents and Statistics
- Wednesday – Rational Functions
- Thursday – Geometry
- Friday – Trigonometry

After School Blitz sessions this week

Monday	Logarithms	Davis Schmutz	2:30 – 3:30	Complete Logarithms assignment Add 7 points to Logarithms Unit Test
Tuesday	Statistics	Dixon Davis	2:30 – 3:30	Complete Statistics assignment Add 7 points to Statistics Unit Test
Wednesday	Rational Expressions	Dixon Schmutz	2:30 – 3:30	Replace lowest quiz grade with 100
Thursday	Geometry	Dixon Schmutz Davis	2:30 – 3:30	Complete Geometry assignment Add 7 points to Geometry Unit Test
Friday	Trig with the Unit Circle	Dixon Schmutz Davis	2:30 – 3:30	Complete Trigonometry assignment Add 7 points to Trigonometry Unit Test

HOW TO FIND...

fully factor numerator & denominator

Holes

caused by factors that cancel out of the numerator & denominator

Vertical Asymptotes $x = \dots$

caused by values of x that cause the simplified denominator to $= 0$

Horizontal Asymptotes $y = \dots$

compare degree of numerator and denominator

$n > d$ no HA

$n = d$ divide leading coefficient of numerator by

$n < d$ HA at line $y = 0$

leading coef. of denominator

x intercepts

set numerator $= 0$ & solve

y intercepts

evaluate function at $x = 0$

Make sure the

Rational
Functions

page of your
formula book

has the

following

items

completed.