Alg 4 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_

WS Assessment

Target 18:

Operation of Rational

Solving rational equation

**I can:**

* Multiply / Divide rational expression
* Add / Subtraction rational expression
* Solve rational equation

**Unit 5: Rational Expression and Their Operations**

* [**HSA.APR.D.6**](http://www.corestandards.org/Math/Content/HSA/APR/D/6/): Rewrite simple rational expressions in different forms; write *a*(*x*)/*b*(*x*) in the form *q*(*x*) + *r*(*x*)/*b*(*x*), where *a*(*x*), *b*(*x*), *q*(*x*), and *r*(*x*) are polynomials with the degree of *r*(*x*) less than the degree of *b*(*x*), using inspection, long division, or, for the more complicated examples, a computer algebra system.
* **H**[**SA.SSE.A.2**](http://www.corestandards.org/Math/Content/HSA/SSE/A/2/): Use the structure of an expression to identify ways to rewrite it. *For example, see x4 - y4 as (x2)2 - (y2)2, thus recognizing it as a difference of squares that can be factored as (x2 - y2)(x2 + y2)*.
* [**HSA.SSE.B.3.A**](http://www.corestandards.org/Math/Content/HSA/SSE/B/3/a/): Factor a quadratic expression to reveal the zeros of the function it defines.
* [**HSN.RN.B.3**](http://www.corestandards.org/Math/Content/HSN/RN/B/3/): Explain why the sum or product of two rational numbers is rational; that the sum of a rational number and an irrational number is irrational; and that the product of a nonzero rational number and an irrational number is irrational.

HW# 18 Rational Simplification www.deltamath.com

Multiply and simplify

Divide and simplify

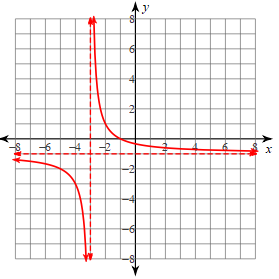
Add / Subtracting and simplify

Simplify Complex Rational

Solve rational equation

Simplify and graph both for stamp

Graph, write an equation, and give the asymptotes for each problem.

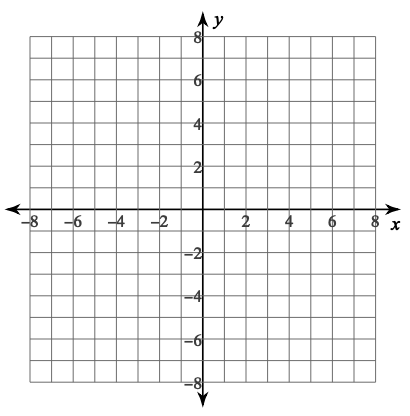


Asymptotes:

Domain:

Range:

Equation:

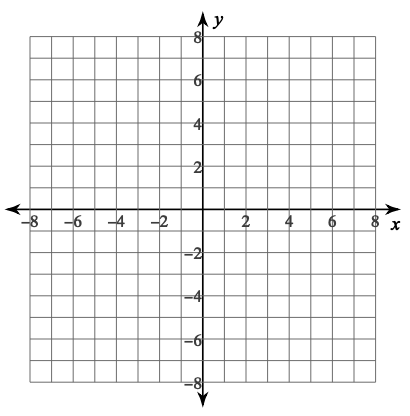


Asymptotes:

Domain:

Range:

Equation:



Asymptotes:

Domain:

Range:

Equation:

Where a, b, c is your choice



Write the equation

**Assessment Target 18**

**I can…** perform operations on rational and solve rational function

Solve the for x

Simplify to the form f(x) = then graph, and give the asymptotes for f(x) = Stamp