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| **Rational Equations (6.4)** | **Math 098** |

Method: To solve a rational equation

Multiply both sides of the equation by the LCD. This is called *clearing fractions* and produces an equation similar to those we have already solved. After solving this equation, make sure to check your result for extraneous solutions.

Solve

1. 
2.  (after solving, observe the graphs)
3. 
4. 

Consider  and . Find all values of *a* such that .

Example 3: Solve

1. 
2. 

Example 4: Find all values of *x* for which the rational function  is equal to 

Example 5: For the functions  and , find all values of *a* for which .