Parent Functions #7

Positive:

Negative:

Symmetry:

End Behavior:

 $x \rightarrow 0^{-}$

Maximums /Minimums

 $\lim f(x) =$ $x \rightarrow -\infty$

 $\lim_{x\to\infty}f(x) =$

 $\lim f(x) =$

 $\lim f(x) =$ $x \rightarrow 0^+$



Parent Functions #7



Steps for solving a rational equation:



- 1. Factor the denominator to find LCD
- 2. Multiply numerator and denominator of each term to make LCD
- 3. Multiply entire equation by LCD to get rid of denominator
- 4. Solve for variable. You might need to factor.
- 5. Find the restrictions and compare the answers.

Steps for finding the restrictions:

- 1. Factor denominator
- 2. set denominator equal to zero since you can't divide by zero.
- 3. Solve for the variable.

EX. $\frac{y+2}{y} - \frac{y-3}{y} = 7$

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EX.
$$\frac{1}{x-7} + \frac{x}{x-2} = \frac{5}{x^2 - 9x + 14}$$