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## 2.7 Solving Rational Equations



- Multiply each term in eq. by LCD to clear fractions
- solve the equation
- check for extraneous solutions

## 2.8 Solving Inequalities in One Variable

when solving an inequality - your answer is the x values for where the function (y values) meets the given conditions

f(x) > 0

report the x values for where the y's are greater than zero  $\chi \angle -1.5 \quad \chi \bigtriangledown$  $(-\infty, -1.5) \cup (1, \infty)$ 



Polynomial Inequalities
goal: solving where the polynomial is (+) or (-)
Everything on 1 side and factored
Find all x-intercepts
Plot using open & closed holes according to the inequality sign
Find the signs of the graph in the intervals b/w the intercepts (use a value in the interval)
Answer: the intervals according to the inequality signs (use the union symbol if more than 1 interval)





