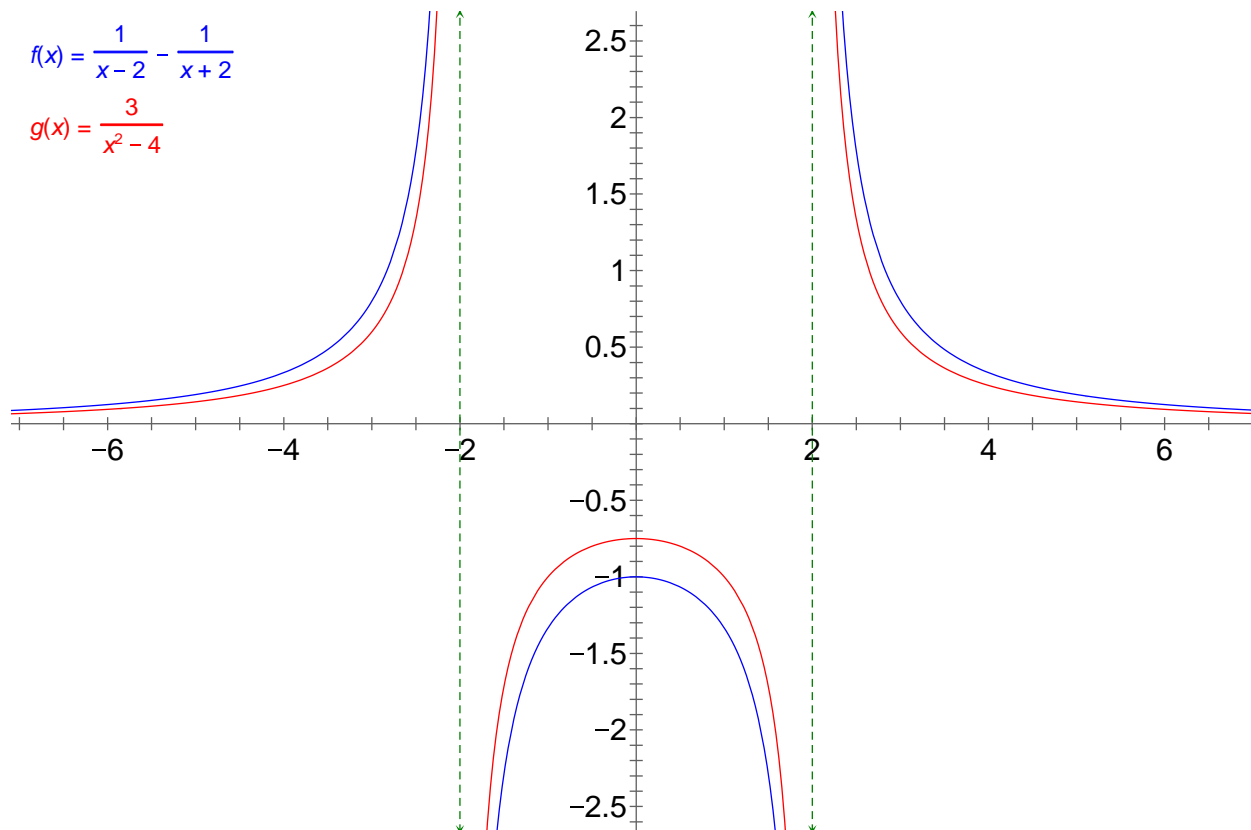


Algebra 2, Module 7, Lesson 4 – Solving Rational Inequalities Using Tables and Graphs

4. According to the following graph, for what values of x is $\frac{1}{x-2} - \frac{1}{x+2} \geq \frac{3}{x^2-4}$?



A. $-2 \leq x \leq 2$

Incorrect. In that interval, the left side of the inequality is less than the right side.

B. $x \leq -2$ or $x \geq 2$

Incorrect. While it is the right interval, $x \neq 2$ or $x \neq -2$. Those values are not in the solution.

C. $x < -2$ or $x > 2$

Correct. To solve this inequality, we are looking for when the blue graph (left side) is above the red graph (right side). This is true to the left of -2 or to the right of 2 .

D. $-2 < x < 2$

Incorrect. In that interval, the left side of the inequality is less than the right side.