

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

1. What is the solution to the inequality $\frac{x+3}{x-4} \geq 0$?

A. $-3 \leq x < 4$

Incorrect. This would be the solution to the inequality $\frac{x+3}{x-4} \leq 0$.

B. $x > 4$

This answer is only partially correct. Examine the graph of the left side of the inequality again.

C. $x \leq -3$ or $x > 4$

Correct. The graph of the rational function shows that the function is greater than or equal to 0 when $x \leq -3$ and again when $x > 4$.

D. $x \leq -3$ or $x \geq 4$

Incorrect. 4 cannot be in the solution to this inequality.