

Algebra 2
Unit: Rational Functions
Section: Solving Rational Equations and Inequalities

Example: Solving Rational Inequalities

Problem

Solve seven divided by the quantity x plus one greater than seven.

Solution

Rewrite the function.

Set the function equal to zero and solve for the zeros.

Find the excluded value of x equal to -1 . This value will cause the denominator to be zero.

Mark these values on the number line and check the three intervals.

The final answer is between negative one and zero. Negative one is less than x which is less than zero.