



Rational Inequalities

Version 2

Name: _____

Date: _____

Score: _____

Direction: Solve each rational inequality. Express the answer in interval notation. Show all your work in the space provided.

1) $\frac{x^2 - x - 2}{x + 3} < 0$

2) $\frac{x^2 + 2x - 15}{x^2 + 7x} > 0$

3) $\frac{x^2 + x - 6}{x^2 - 3x - 4} \leq 0$

4) $\frac{x^2}{x^2 + x} \geq 0$



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1) $\frac{x^2 - x - 2}{x + 3} < 0$

$(-\infty, -3) \cup (-1, 2)$

2) $\frac{x^2 + 2x - 15}{x^2 + 7x} > 0$

$(-\infty, -7) \cup (-5, 0) \cup (3, \infty)$

3) $\frac{x^2 + x - 6}{x^2 - 3x - 4} \leq 0$

$[-3, -1) \cup [2, 4)$

4) $\frac{x^2}{x^2 + x} \geq 0$

$(-\infty, -1) \cup [0, \infty)$