Rational Inequalities

Version 1

Name: _____ **Date**: _____ **Score**: _____

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

1) $\dfrac{x+3}{x-2} \geq 0$

2) $\dfrac{x^2-5x-14}{x+1} > 0$

3) $\dfrac{x+2}{x^2-6x+9} < 0$

4) $\dfrac{x^2-1}{x^2-4} \leq 0$

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

2) $\frac{x^2-5x-14}{x+1} > 0$

$(-2, -1) \cup (7, \infty)$

3) $\frac{x+2}{x^2-6x+9} < 0$

$(-\infty, -2)$

4) $\frac{x^2-1}{x^2-4} \leq 0$

$(-2, -1] \cup [1, 2)$