



## Rational Function Inequalities - Expanded Quadratic over Binomial - Solution Set

<p>1 Which set of values satisfies this inequality?</p>	$\frac{x^2 + 6x + 8}{x + 3} < 0$	<p>2 Which set of values satisfies this inequality?</p>	<p>A <math>(0, \infty)</math></p>	<p>B <math>(-\infty, 0)</math></p>	
<p>A <math>(-4, -3) \cup (-2, \infty)</math></p>	<p>B <math>(-\infty, -4) \cup (-3, -2)</math></p>	$\frac{x^2 - 2x}{x - 2} < 0$	<p>C <math>(-\infty, 0) \cup (0, \infty)</math></p>	<p>D <math>(0, 2)</math></p>	
<p>C <math>(-4, -3) \cup (-2, -1)</math></p>	<p>D <math>(-\infty, -4) \cup (-4, -3) \cup (-3, -2) \cup (-2, \infty)</math></p>	<p>3 Which set of values satisfies this inequality?</p>	<p>A <math>(0, \infty)</math></p>	<p>4 Which set of values satisfies this inequality?</p>	<p>A <math>(-\infty, -4) \cup (-2, 2)</math></p>
$\frac{x^2 + 2x}{x + 2} > 0$	<p>B <math>(-\infty, 0)</math></p>	$\frac{x^2 - 4}{x + 4} > 0$	<p>C <math>(-\infty, -2) \cup (0, \infty)</math></p>	<p>B <math>(-\infty, -4) \cup (-3, -2) \cup (2, \infty)</math></p>	<p>C <math>(-\infty, -4) \cup (-4, -2) \cup (-2, 2) \cup (2, \infty)</math></p>
<p>D <math>(-\infty, 0) \cup (0, \infty)</math></p>	<p>5 Which set of values satisfies this inequality?</p>	<p>A <math>(-\infty, -3) \cup (-3, -2) \cup (-2, 3) \cup (3, \infty)</math></p>	<p>6 Which set of values satisfies this inequality?</p>	$\frac{x^2 + 4x + 3}{x - 1} > 0$	
$\frac{x^2 - 9}{x + 2} > 0$	<p>B <math>(-\infty, -4) \cup (-3, -2) \cup (3, \infty)</math></p>	<p>A <math>(-\infty, -3) \cup (-1, 1)</math></p>	<p>B <math>(-\infty, -3) \cup (-3, -1) \cup (-1, 1) \cup (1, \infty)</math></p>		
<p>C <math>(-\infty, -3) \cup (-2, 3)</math></p>	<p>C <math>(-\infty, -3) \cup (-2, 3)</math></p>	<p>C <math>(-3, -1) \cup (1, \infty)</math></p>	<p>D <math>(-\infty, -4) \cup (-3, -1) \cup (1, \infty)</math></p>		
<p>D <math>(-3, -2) \cup (3, \infty)</math></p>	<p>7 Which set of values satisfies this inequality?</p>	<p>A <math>(-4, -1) \cup (0, \infty)</math></p>	<p>8 Which set of values satisfies this inequality?</p>		
$\frac{x^2 + x}{x + 4} > 0$	<p>B <math>(-\infty, -4) \cup (-1, 0)</math></p>	$\frac{x^2 - x - 6}{x + 2} < 0$	<p>A <math>(3, \infty)</math></p>	<p>B <math>(-2, 3)</math></p>	
<p>C <math>(-\infty, -4) \cup (-3, -1) \cup (0, \infty)</math></p>	<p>D <math>(-\infty, -4) \cup (-4, -1) \cup (-1, 0) \cup (0, \infty)</math></p>	<p>C <math>(-\infty, 3)</math></p>	<p>D <math>(-\infty, 3) \cup (3, \infty)</math></p>		