



## Rational Function Inequalities - Three Factors over Binomial - Solution Set

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