



## Rational Functions and Asymptotes - Calculate Single Vertical Asymptote (Factored)

<p>1</p> <p>What is the vertical asymptote of this rational function? <math>f(x) = \frac{x(x-1)}{(x+2)}</math></p>	<p>2</p> <p>What is the vertical asymptote of this rational function? <math>f(x) = \frac{(x+2)}{x}</math></p>		
<p>A Vertical asymptote at <math>x = 1</math></p>	<p>B Vertical asymptote at <math>x = 2</math></p>	<p>A Vertical asymptote at <math>x = 0</math></p>	<p>B Vertical asymptote at <math>x = -3</math></p>
<p>C Vertical asymptote at <math>x = -2</math></p>	<p>D Vertical asymptote at <math>x = 0</math></p>	<p>C Vertical asymptote at <math>x = -2</math></p>	<p>D Vertical asymptote at <math>x = 2</math></p>
<p> </p>	<p> </p>	<p> </p>	<p> </p>
<p>3</p> <p>What is the vertical asymptote of this rational function? <math>f(x) = \frac{(x-1)}{(x+4)}</math></p>	<p>4</p> <p>What is the vertical asymptote of this rational function? <math>f(x) = \frac{(x-3)}{(x+4)}</math></p>		
<p>A Vertical asymptote at <math>x = -1</math></p>	<p>B Vertical asymptote at <math>x = 1</math></p>	<p>A Vertical asymptote at <math>x = 4</math></p>	<p>B Vertical asymptote at <math>x = -4</math></p>
<p>C Vertical asymptote at <math>x = -4</math></p>	<p>D Vertical asymptote at <math>x = 4</math></p>	<p>C Vertical asymptote at <math>x = 3</math></p>	<p>D Vertical asymptote at <math>x = -3</math></p>
<p> </p>	<p> </p>	<p> </p>	<p> </p>
<p>5</p> <p>What is the vertical asymptote of this rational function? <math>f(x) = \frac{(x-3)}{(x-2)}</math></p>	<p>6</p> <p>What is the vertical asymptote of this rational function? <math>f(x) = \frac{x(x-3)}{(x-2)}</math></p>		
<p>A Vertical asymptote at <math>x = -2</math></p>	<p>B Vertical asymptote at <math>x = -3</math></p>	<p>A Vertical asymptote at <math>x = -2</math></p>	<p>B Vertical asymptote at <math>x = 2</math></p>
<p>C Vertical asymptote at <math>x = 2</math></p>	<p>D Vertical asymptote at <math>x = 3</math></p>	<p>C Vertical asymptote at <math>x = 3</math></p>	<p>D Vertical asymptote at <math>x = 0</math></p>
<p> </p>	<p> </p>	<p> </p>	<p> </p>
<p>7</p> <p>What is the vertical asymptote of this rational function? <math>f(x) = \frac{(x-1)(x-2)}{x}</math></p>	<p>8</p> <p>What is the vertical asymptote of this rational function? <math>f(x) = \frac{(x-1)(x-2)}{(x+1)}</math></p>		
<p>A Vertical asymptote at <math>x = 0</math></p>	<p>B Vertical asymptote at <math>x = 1</math></p>	<p>A Vertical asymptote at <math>x = 1</math></p>	<p>B Vertical asymptote at <math>x = 2</math></p>
<p>C Vertical asymptote at <math>x = 2</math></p>	<p>D Vertical asymptote at <math>x = -2</math></p>	<p>C Vertical asymptote at <math>x = -1</math></p>	<p>D Vertical asymptote at <math>x = -2</math></p>
<p> </p>	<p> </p>	<p> </p>	<p> </p>