



Rational Functions and Asymptotes - Calculate Double Vertical Asymptotes (Expanded)

<p>1 What are the vertical asymptotes of this rational function?</p> $f(x) = \frac{x^2 - 9}{x^2 + 5x + 4}$	<p>2 What are the vertical asymptotes of this rational function?</p> $f(x) = \frac{x^2 + x}{x^2 - 9}$
<p>A Vertical asymptotes at $x = -4, x = -1$</p>	<p>B Vertical asymptotes at $x = -3, x = 3$</p>
<p>C Vertical asymptote at $x = -3$</p>	<p>D Vertical asymptote at $x = 3$</p>
<p>A Vertical asymptotes at $x = -3, x = 3$</p>	<p>B Vertical asymptote at $x = 1$</p>
<p>C Vertical asymptote at $x = 0$</p>	<p>D Vertical asymptote at $x = -1$</p>
<p>3 What are the vertical asymptotes of this rational function?</p> $f(x) = \frac{x^3 + 4x^2 - 4x - 16}{x^2 + 3x}$	<p>4 What are the vertical asymptotes of this rational function?</p> $f(x) = \frac{x^2 + x}{x^2 - 16}$
<p>A Vertical asymptote at $x = -2$</p>	<p>B Vertical asymptote at $x = -4$</p>
<p>C Vertical asymptotes at $x = -3, x = 0$</p>	<p>D Vertical asymptote at $x = 4$</p>
<p>A Vertical asymptote at $x = 0$</p>	<p>B Vertical asymptotes at $x = -4, x = 4$</p>
<p>C Vertical asymptote at $x = -1$</p>	<p>D Vertical asymptote at $x = 1$</p>
<p>5 What are the vertical asymptotes of this rational function?</p> $f(x) = \frac{x^3 + 4x^2 - x - 4}{x^2 + 2x}$	<p>6 What are the vertical asymptotes of this rational function?</p> $f(x) = \frac{x}{x^2 + 5x + 4}$
<p>A Vertical asymptote at $x = -4$</p>	<p>B Vertical asymptotes at $x = -2, x = 0$</p>
<p>C Vertical asymptote at $x = 4$</p>	<p>D Vertical asymptote at $x = -1$</p>
<p>A Vertical asymptote at $x = 0$</p>	<p>B Vertical asymptotes at $x = 1, x = 4$</p>
<p>C Vertical asymptotes at $x = -1, x = 4$</p>	<p>D Vertical asymptotes at $x = -4, x = -1$</p>
<p>7 What are the vertical asymptotes of this rational function?</p> $f(x) = \frac{x^3 - 8x^2 + 19x - 12}{x^2 + 4x}$	<p>8 What are the vertical asymptotes of this rational function?</p> $f(x) = \frac{x}{x^2 + 7x + 12}$
<p>A Vertical asymptote at $x = 3$</p>	<p>B Vertical asymptote at $x = 1$</p>
<p>C Vertical asymptote at $x = -1$</p>	<p>D Vertical asymptotes at $x = -4, x = 0$</p>
<p>A Vertical asymptotes at $x = -3, x = 4$</p>	<p>B Vertical asymptotes at $x = 3, x = 4$</p>
<p>C Vertical asymptotes at $x = -4, x = -3$</p>	<p>D Vertical asymptote at $x = 0$</p>