



Rational Functions and Asymptotes - Calculate Horizontal Asymptote

(Expanded)

<p>1 What is the horizontal asymptote of this rational function?</p> $f(x) = \frac{3x + 6}{x^2 - 6x + 8}$	<p>2 What is the horizontal asymptote of this rational function?</p> $f(x) = \frac{3x^2 - 3x - 6}{3x^2 + 21x + 36}$		
<p>A Horizontal asymptote at $y = \frac{4}{3}$</p>	<p>B Horizontal asymptote at $y = \frac{2}{5}$</p>	<p>A Horizontal asymptote at $y = \frac{-8}{5}$</p>	<p>B Horizontal asymptote at $y = 0$</p>
<p>C Horizontal asymptote at $y = -2$</p>	<p>D Horizontal asymptote at $y = 0$</p>	<p>C Horizontal asymptote at $y = -2$</p>	<p>D Horizontal asymptote at $y = 1$</p>
<p>3 What is the horizontal asymptote of this rational function?</p> $f(x) = \frac{3x}{x^2 - 5x + 4}$	<p>4 What is the horizontal asymptote of this rational function?</p> $f(x) = \frac{-5x - 20}{4x + 12}$		
<p>A Horizontal asymptote at $y = -2$</p>	<p>B Horizontal asymptote at $y = 6$</p>	<p>A Horizontal asymptote at $y = \frac{-3}{5}$</p>	<p>B Horizontal asymptote at $y = -1$</p>
<p>C Horizontal asymptote at $y = 0$</p>	<p>D Horizontal asymptote at $y = \frac{8}{5}$</p>	<p>C Horizontal asymptote at $y = \frac{-5}{4}$</p>	<p>D Horizontal asymptote at $y = 0$</p>
<p>5 What is the horizontal asymptote of this rational function?</p> $f(x) = \frac{3x - 3}{x^3 - 2x^2 - 16x + 32}$	<p>6 What is the horizontal asymptote of this rational function?</p> $f(x) = \frac{-4x^2 + 16x - 12}{2x^2 + 6x}$		
<p>A Horizontal asymptote at $y = 3$</p>	<p>B Horizontal asymptote at $y = -4$</p>	<p>A Horizontal asymptote at $y = 0$</p>	<p>B Horizontal asymptote at $y = \frac{-8}{5}$</p>
<p>C Horizontal asymptote at $y = 0$</p>	<p>D Horizontal asymptote at $y = 6$</p>	<p>C Horizontal asymptote at $y = \frac{9}{5}$</p>	<p>D Horizontal asymptote at $y = -2$</p>
<p>7 What is the horizontal asymptote of this rational function?</p> $f(x) = \frac{2x^2 + 6x - 8}{x^3 - 5x^2 + 6x}$	<p>8 What is the horizontal asymptote of this rational function?</p> $f(x) = \frac{-4x^2 + 28x - 48}{3x^2 + 6x - 24}$		
<p>A Horizontal asymptote at $y = 2$</p>	<p>B Horizontal asymptote at $y = 0$</p>	<p>A Horizontal asymptote at $y = 0$</p>	<p>B Horizontal asymptote at $y = 4$</p>
<p>C Horizontal asymptote at $y = 4$</p>	<p>D Horizontal asymptote at $y = \frac{-5}{6}$</p>	<p>C Horizontal asymptote at $y = \frac{-4}{3}$</p>	<p>D Horizontal asymptote at $y = \frac{-8}{3}$</p>