



Rational Functions and Asymptotes - Calculate Horizontal Asymptote

(Factored)

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