

April 16, 2016

$$f(x) = \frac{1}{x}$$

Apr 15-11:02 AM

Asymptotes of Rational Functions

$$r(x) = \frac{a_n x^n + a_{n-1} x^{n-1} + \dots + a_1 x + a_0}{b_m x^m + b_{m-1} x^{m-1} + \dots + b_1 x + b_0}$$

① Vertical Asymptote
 * a line at $x = a$
 where a is a zero of the denominator.

② Horizontal Asymptotes

Ⓐ If $n < m$, then $y = 0$ is a horizontal asymptote

Ⓑ If $n = m$, then " x " has an asymptote at $y = \frac{a_n}{b_m}$

$f(x) =$

Apr 15-11:35 AM