

Graphing Rational Functions

Def: A RATIONAL FUNCTION is a function that is in the form of a _____

$$\text{Ex) } f(x) = \frac{x^2 - 3x - 4}{x^2 - 4}$$

Are there any numbers that if we plugged them into x in this function they would cause a problem?

pic of YOUR graph



pic of YOUR table



Continues on the next page

LETS LOOK AT ANOTHER FUNCTION

$$f(x) = \frac{x^2 - 1}{2x + 4}$$

What number(s) would cause a problem ?



Def: An asymptote is _____

The function will _____
