Name_____ Limits Graphically I.doc

The limit of a function is a fundamental concept in calculus concerning the behavior of that function near a particular input.

$\lim_{x \to \infty} f(x) =$ _____

$\lim_{x \to -\infty} f(x) =$ _____

$\lim_{x \to 1^+} f(x) =$ _____

$\lim_{x \to 1^-} f(x) =$ _____

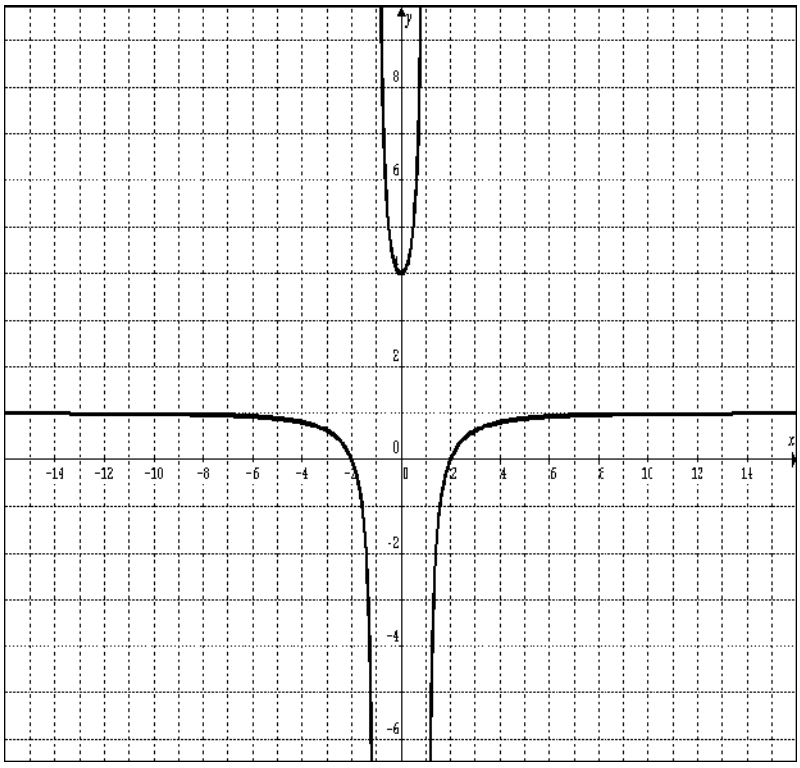
$\lim_{x \to -1^+} f(x) =$ _____

$\lim_{x \to -1^-} f(x) =$ _____

$\lim_{x \to 0^+} f(x) =$ _____

$\lim_{x \to 0^-} f(x) =$ _____

$\lim_{x \to 0} f(x) =$ _____



$f(2) =$ _____

$\lim_{x \to 2} f(x) =$ _____

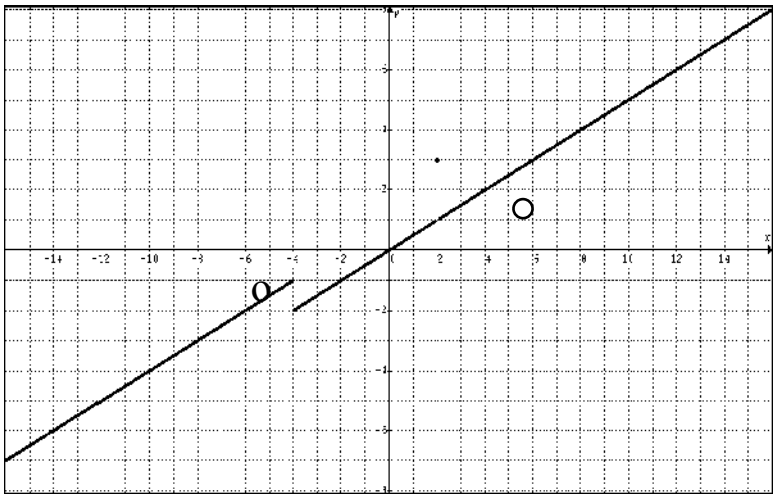
$\lim_{x \to -2} f(x) =$ _____

$\lim_{x \to -4^-} f(x) =$ _____

$\lim_{x \to -4^+} f(x) =$ _____

$\lim_{x \to -4} f(x) =$ _____

$\lim_{x \to \infty} f(x) =$ _____



$\lim_{x \to -\infty} f(x) =$ _____

Limits Graphically II **Name:**_____

For the graph of the function y=f(x) below, evaluate each of the following.

$f(-4) =$ _____

$\lim_{x \to -4^+} f(x) =$ _____

$\lim_{x \to -4^-} f(x) =$ _____

$\lim_{x \to -4} f(x) =$ _____

$\lim_{x \to 2} f(x) =$ _____

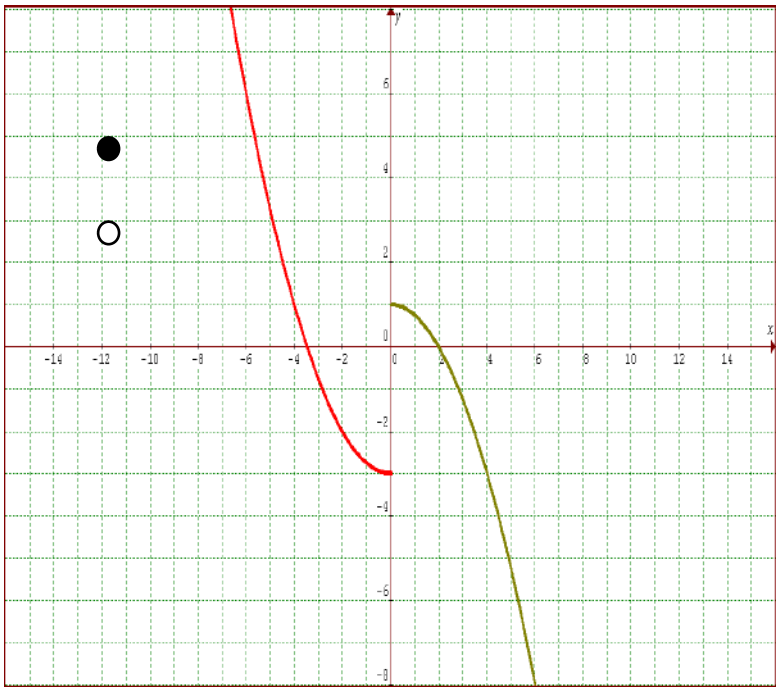
$\lim_{x \to 0^+} f(x) =$ _____

$\lim_{x \to 0^-} f(x) =$ _____

$\lim_{x \to 0} f(x) =$ _____

$\lim_{x \to -\infty} f(x) =$ _____

$\lim_{x \to \infty} f(x) =$ _____



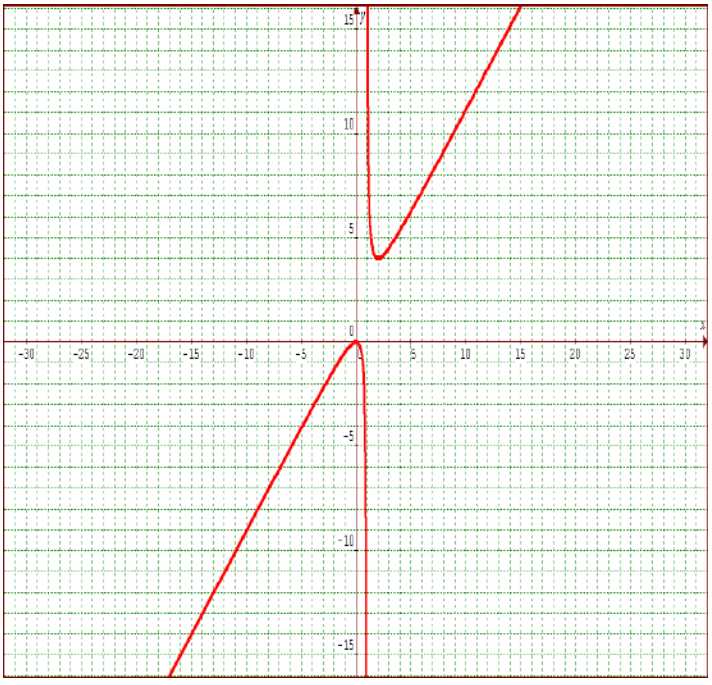
$\lim_{x \to 2} f(x) =$ _____

$\lim_{x \to 1^+} f(x) =$ _____

$\lim_{x \to 1^-} f(x) =$ _____

$\lim_{x \to 0} f(x) =$ _____

$\lim_{x \to -\infty} f(x) =$ _____



$\lim_{x \to \infty} f(x) =$ _____