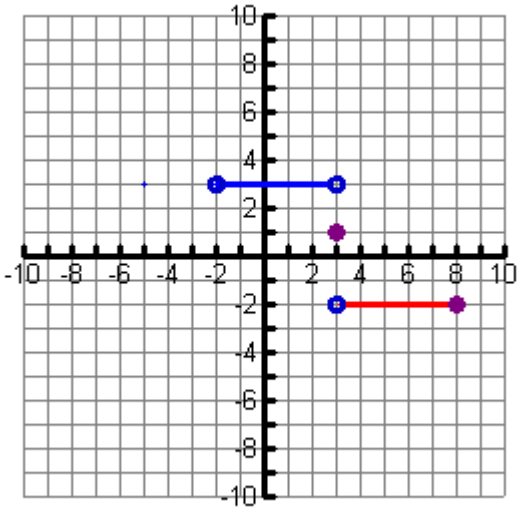
Pre-Calculus w/Trig Peto
Limits Day 24

Name _____
Date _____ Period _____

OBJECTIVE: You will be able to find the limit of a function from a graph.

Use the graph to estimate the limits and value of the function, or explain why the limits do not exist.

1. $f(x)$



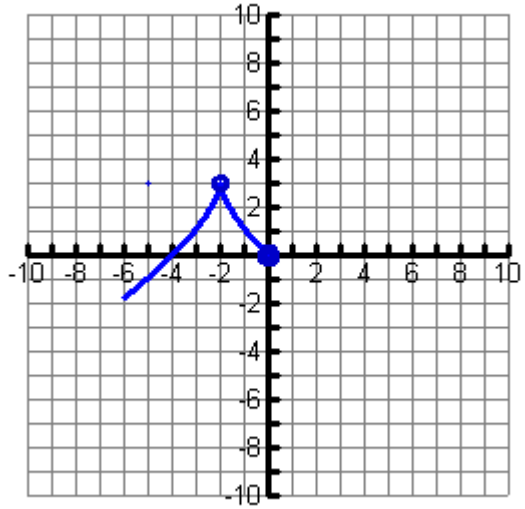
a. $\lim_{x\to 3^-} f(x)$

b. $\lim_{x\to 3^+} f(x)$

c. $\lim_{x\to 3} f(x)$

d. $f(3)$

2. $g(x)$



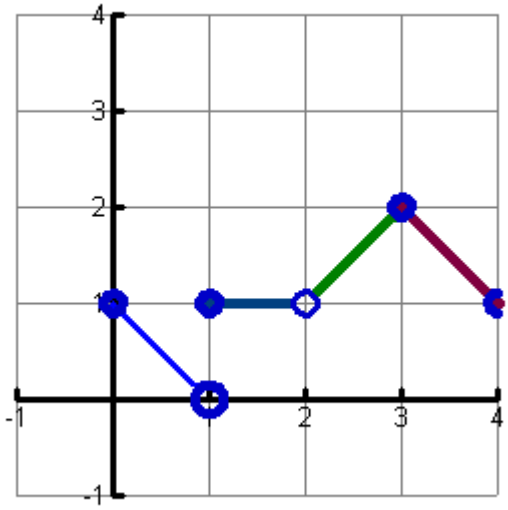
a. $\lim_{x\to -2^-} g(x)$

b. $\lim_{x\to -2^+} g(x)$

c. $\lim_{x\to -2} g(x)$

d. $g(-2)$

3. $h(x)$



g. Does $\lim_{x\to 1} h(x)$ exist? Explain.

h. Does $\lim_{x\to 2} h(x)$ exist? Explain.

a. $\lim_{x\to 1^-} h(x)$

b. $\lim_{x\to 1^+} h(x)$

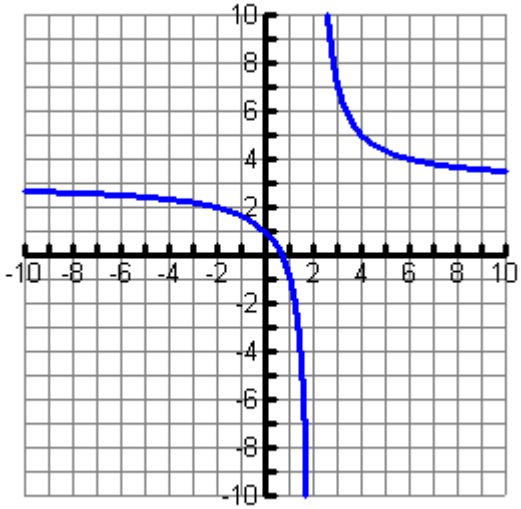
c. $\lim_{x\to 2^-} h(x)$

d. $\lim_{x\to 2^+} h(x)$

e. $h(1)$

f. $h(2)$

4. $k(x)$



a. $\lim_{x\to 2^-} k(x)$

b. $\lim_{x\to 2^+} k(x)$

c. $\lim_{x\to 2} k(x)$

d. $\lim_{x\to \infty^-} k(x)$

e. $\lim_{x\to \infty^+} k(x)$

f. $\lim_{x\to \infty} k(x)$