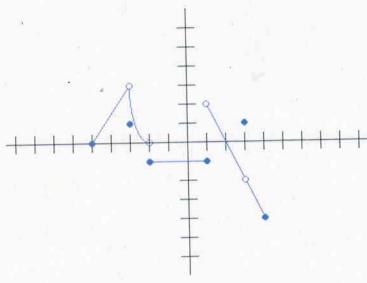
Instructions: Show all work. Answers without work may only receive partial credit. If you are asked for an explanation, explain as completely as possible. Use exact answers unless specifically asked to round.

1. Shown below is the graph of f(x). Find the limit at the indicated values.

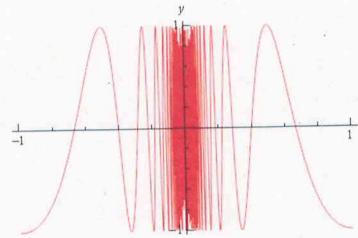


a.
$$\lim_{x \to -3} f(x) = 3$$

$$c. \lim_{x \to -2^-} f(x) = \bigcirc$$

b.
$$\lim_{x \to 1^+} f(x) = 2$$

2. The graph of g(x) is shown below. Explain why $\lim_{x\to 0} g(x)$ does not exist.



because the closer you get
to zero the faster The graph
oscillates and does not
get closer to a particular
value

3. Use a table of values below to find the limit of $\lim_{x\to 9} h(x) = \frac{x-9}{\sqrt{x}-3}$.

h(x)	5.9983	5.9998	26	26	6.0002	6,0017
x	8.99	8.999	8.9999	9.0001	9.001	9.01