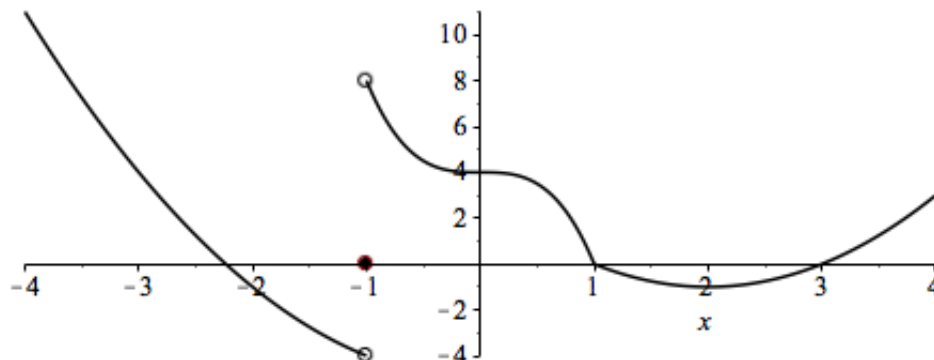


Name: _____

1. Below is a plot of the function $f(x)$. Find the following limits.



(a) Compute $\lim_{x \rightarrow -1^-} f(x)$.

(b) Compute $\lim_{x \rightarrow -1^+} f(x)$.

(c) Compute $f(-1)$.

(d) Does $\lim_{x \rightarrow -1} f(x)$ exist? If so, what is the limit? If not, explain why.

2. Compute the following limits.

$$(a) \lim_{h \rightarrow 0} \frac{3}{\sqrt{3h+1}+1}$$

$$(b) \lim_{x \rightarrow 5} \frac{x-5}{x^2-25}$$

$$(c) \lim_{t \rightarrow 4} \sqrt{t^2-10}$$

$$(d) \lim_{x \rightarrow 1} \frac{x^{-1}-1}{x-1}$$