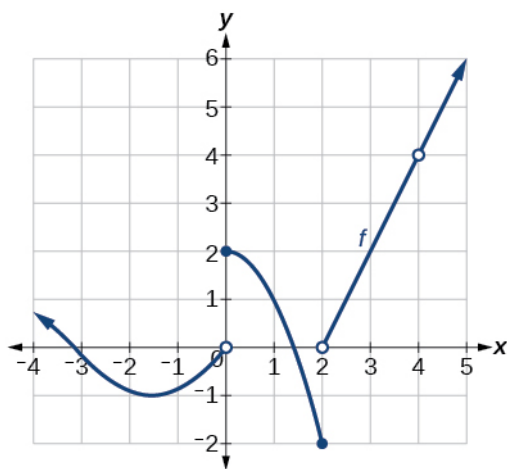


Part 1

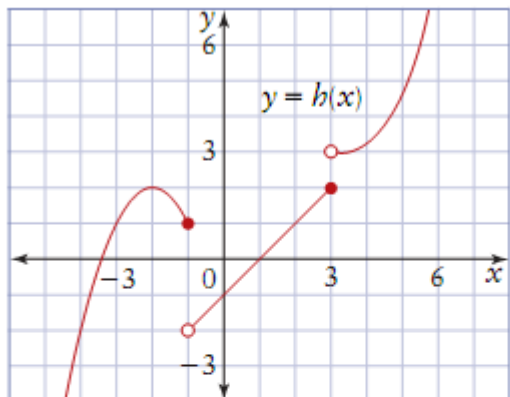
Interpreting Graphs

Question 1.1. Find the following limits. Also list all values of x at which the function is not continuous.

- | | | |
|------------------------------------|------------------------------------|----------------------------------|
| a. $\lim_{x \rightarrow 0^-} f(x)$ | b. $\lim_{x \rightarrow 0^+} f(x)$ | c. $\lim_{x \rightarrow 0} f(x)$ |
| d. $\lim_{x \rightarrow 2^-} f(x)$ | e. $\lim_{x \rightarrow 2^+} f(x)$ | f. $\lim_{x \rightarrow 2} f(x)$ |
| g. $\lim_{x \rightarrow 4^-} f(x)$ | h. $\lim_{x \rightarrow 4^+} f(x)$ | i. $\lim_{x \rightarrow 4} f(x)$ |



Question 1.2. Find the following limits. Also list all values of x at which the function is not continuous.



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

b) $\lim_{x \rightarrow -1^+} h(x)$

c) $\lim_{x \rightarrow -1} h(x)$

d) $h(-1)$

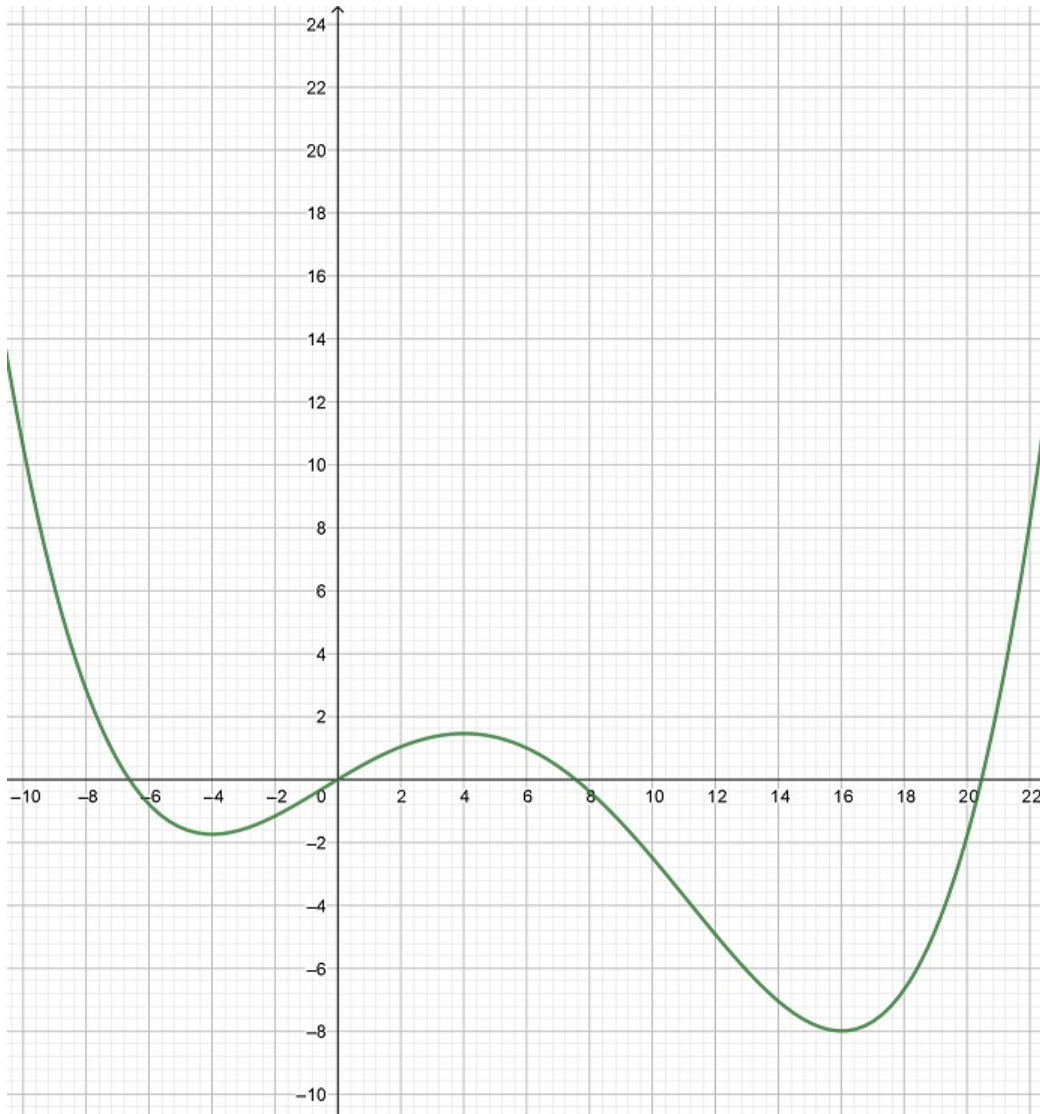
e) $\lim_{x \rightarrow 3^-} h(x)$

f) $\lim_{x \rightarrow 3^+} h(x)$

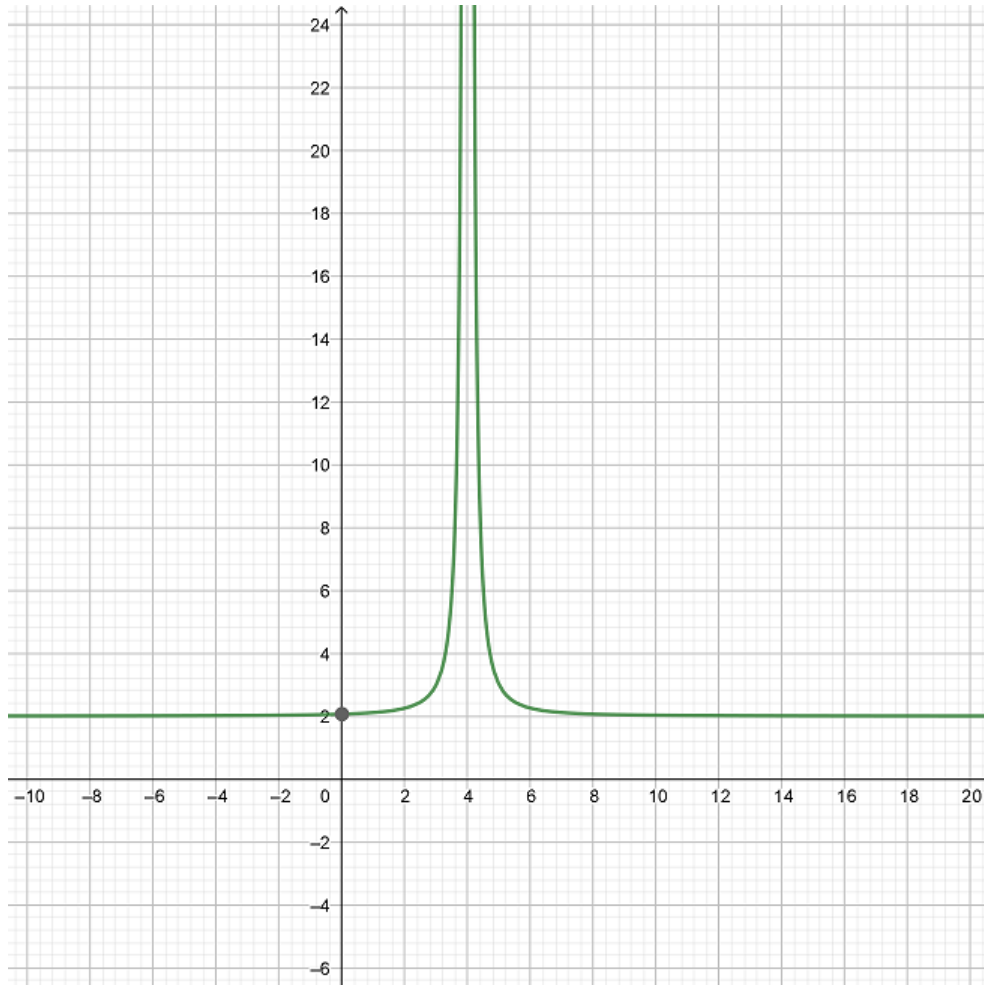
g) $\lim_{x \rightarrow 3} h(x)$

h) $h(3)$

Question 1.3. Find the domain and range of the function.



Question 1.4. Find the domain and range of the function. Also find the equations of all horizontal or vertical asymptotes.



Question 1.5. Find the domain and range of the function. Also find the equations of all horizontal or vertical asymptotes.

