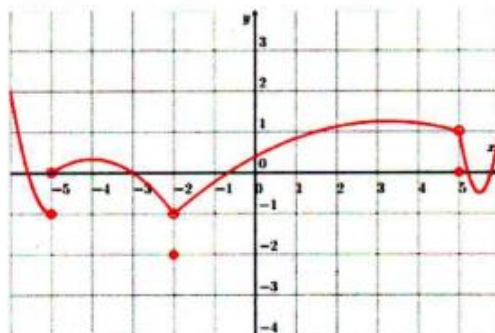


- a. Sketch the graph of the function.
- b. Find $\lim_{x \rightarrow -1^-} f(x)$, $\lim_{x \rightarrow -1^+} f(x)$, $\lim_{x \rightarrow 2^-} f(x)$, and $\lim_{x \rightarrow 2^+} f(x)$ if they exist.

V. Observation



Given above is the graph of f . Determine the following.

- a) $\lim_{x \rightarrow -2^-} f(x) = -1$
- b) $\lim_{x \rightarrow -2^+} f(x) = -1$
- c) $\lim_{x \rightarrow -2} f(x) = -1$
- d) $\lim_{x \rightarrow -5} f(x) \text{ dne}$
- e) $\lim_{x \rightarrow 5} f(x) = 1$
- f) Is f continuous at $x = 0$? *Yes, because we have*
- g) Give the intervals where f is continuous.
 $(-\infty, -5)$, $(-5, -2)$, $(-2, 5)$, $(5, \infty)$