

**6. (a)**  $\lim_{x \rightarrow -1^+} f(x) = 0$

**(b)**  $\lim_{x \rightarrow -1^-} f(x) = 2$

**(c)**  $\lim_{x \rightarrow -1} f(x)$  does not exist.

The function is **NOT** continuous at  $x = -1$ .