

38.  $f(x) = \begin{cases} |x|/|x+1| & \text{if } x \neq -1 \\ 1 & \text{if } x = -1 \end{cases}$  is defined everywhere and discontinuous at  $x = -1$  where it is neither left nor right continuous since  $\lim_{x \rightarrow -1} f(x) = \infty$ , while  $f(-1) = 1$ .