

33. $f(x) = \begin{cases} x^2 & \text{if } x > 2 \\ x & \text{if } x \leq 2 \end{cases}$ is defined everywhere and discontinuous at $x = 2$, where it is, however, left continuous since $\lim_{x \rightarrow 2^-} f(x) = 2 = f(2)$.