

- 36.**  $f(x) = H(9 - x^2) = \begin{cases} 1 & \text{if } -3 \leq x \leq 3 \\ 0 & \text{if } x < -3 \text{ or } x > 3 \end{cases}$  is defined everywhere and discontinuous at  $x = \pm 3$ . It is right continuous at  $-3$  and left continuous at  $3$ .