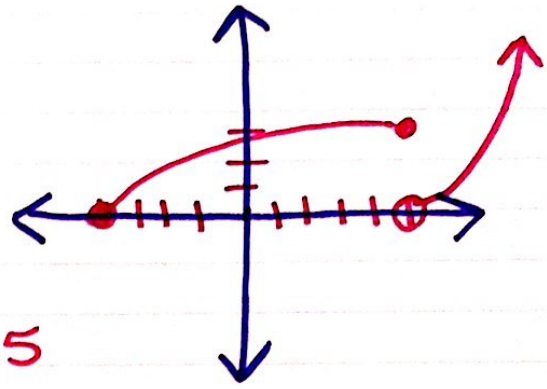
$$f(x) = \begin{cases} \sqrt{x+4} & ; \ x \leq 5 \\ (x-5)^2 & ; \ x > 5 \end{cases}$$

Graph



D: $[-4, \infty)$

R: $[0, \infty)$

$f(-3) = \sqrt{-3+4} = 1$

$f(10) = (10-5)^2 = 25$