

For what value of the constant c is the function f continuous on the interval $(-\infty, \infty)$.

$$f(x) = \begin{cases} x^2 - 7, & x \leq c, \\ 8x - 23, & x > c, \end{cases}$$

$c = \boxed{}$

For what value of the constant c is the function f continuous on the interval $(-\infty, \infty)$.

$$f(x) = \begin{cases} x^2 - 7, & x \leq c, \\ 8x - 23, & x > c, \end{cases}$$

$$c = \boxed{4}$$