Exercise 1 *Is the function*

$$f(x) = \begin{cases} x^3 - x, & x < 1 \\ x - 2, & x \geq 1 \end{cases}$$

continuous at $x = 0$ *or* $x = 1$*?*

Multiple Choice:

(a) f *is continuous at both* $x = 0$ *and* $x = 1$.

(b) f *is continuous at* $x = 0$ *but not at* $x = 1$. ✓

(c) f *is continuous at at* $x = 1$ *but not at* $x = 0$.

(d) f *is not continuous at* $x = 0$ *and* $x = 1$.