**Exercise 1** *Is the function*

$$f(x) = \begin{cases} \dfrac{x^2 - 64}{x^2 - 11x + 24}, & x \neq 8 \\ 5, & x = 8 \end{cases}$$

*continuous at* $x = 0$ *or* $x = 8$*?*

***Multiple Choice:***

(a) $f$ *is continuous at both* $x = 0$ *and* $x = 8$.

(b) $f$ *is continuous at* $x = 0$ *but not at* $x = 8$. ✓

(c) $f$ *is continuous at at* $x = 8$ *but not at* $x = 0$.

(d) $f$ *is not continuous at* $x = 0$ *and* $x = 8$.