

Exercise 1 *Is the function*

$$f(x) = \begin{cases} 1, & x = 0 \\ \frac{\sin(x)}{x}, & x > 0 \end{cases}$$

continuous at $x = 0$ or $x = \pi$?

Multiple Choice:

- (a) *f is continuous at both $x = 0$ and $x = \pi$. ✓*
 - (b) *f is continuous at $x = 0$ but not at $x = \pi$.*
 - (c) *f is continuous at $x = \pi$ but not at $x = 0$.*
 - (d) *f is not continuous at $x = 0$ and $x = \pi$.*
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