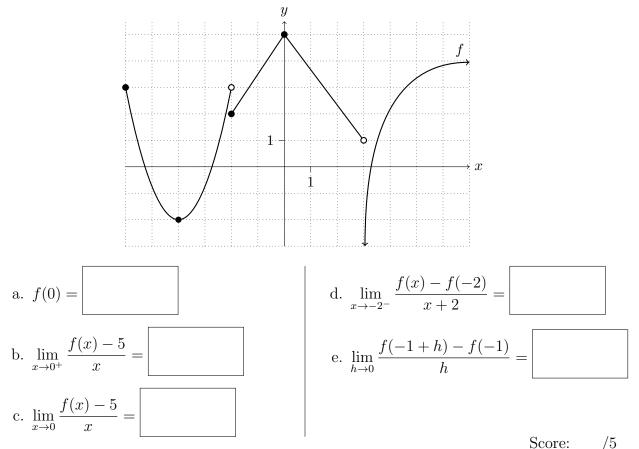


Problem 1: The graph of y = f(x) is shown. Use the graph to answer the questions. Use the symbols ∞ , $-\infty$, and DNE where appropriate.



 $x \to 0$ x **Problem 2**: Use the limit definition of the derivative to find the derivative of $f(x) = \frac{1}{x+2}$ at x = 3.