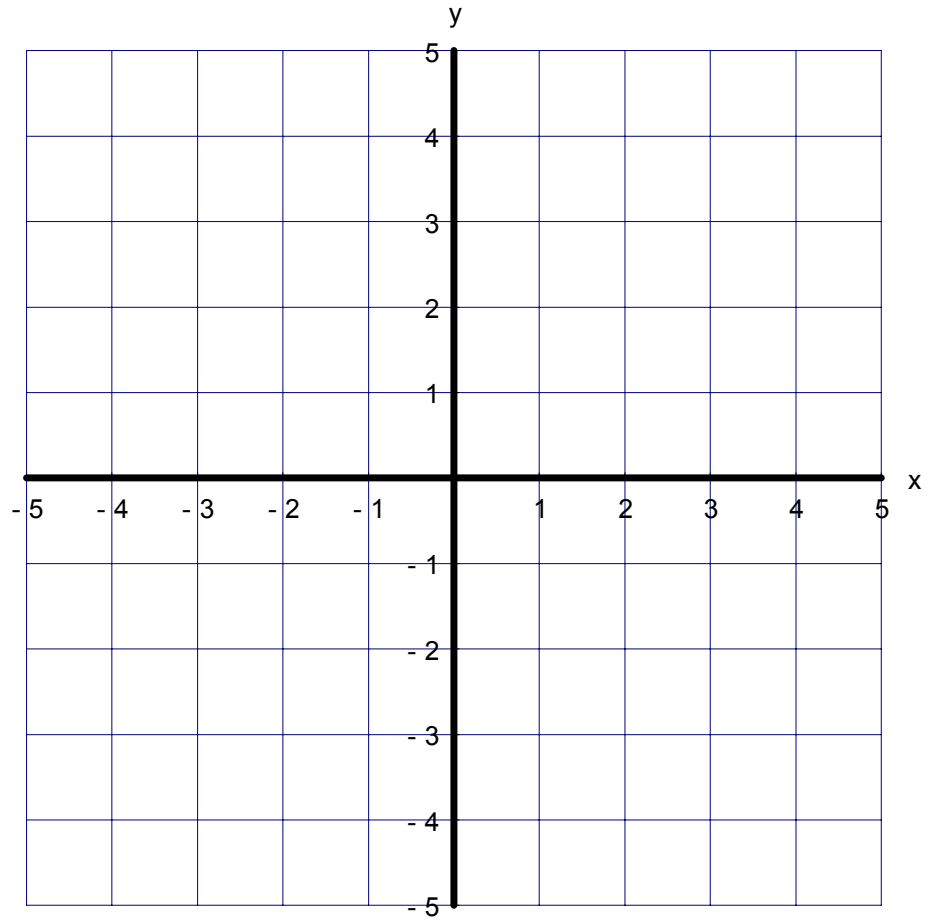


A Graphical Limit Problem

Name _____

Graph $y = f(x)$. Then find the indicated limits.

$$f(x) = \begin{cases} 1 & , \quad x < 0 \\ 2 & , \quad x = 0 \\ \frac{x^3 - x^2}{x - 1} & , \quad 0 < x < 2 \\ 5 - x & , \quad x \geq 2 \end{cases}$$



a) $\lim_{x \rightarrow 0^-} f(x)$

e) $\lim_{x \rightarrow 1^+} f(x)$

i) $\lim_{x \rightarrow 2} f(x)$

b) $\lim_{x \rightarrow 0^+} f(x)$

f) $\lim_{x \rightarrow 1} f(x)$

j) $\lim_{x \rightarrow -\infty} f(x)$

c) $\lim_{x \rightarrow 0} f(x)$

g) $\lim_{x \rightarrow 2^-} f(x)$

k) $\lim_{x \rightarrow +\infty} f(x)$

d) $\lim_{x \rightarrow 1^-} f(x)$

h) $\lim_{x \rightarrow 2^+} f(x)$

l) $\lim_{x \rightarrow 8} f(x)$