NAME(S):

1. Sketch the graph of a function f such that:

a) $f(-4) = 2$ and $\lim_{x\to -4} f(x) = 0$;

b) $\lim_{x\to 0^-} f(x) > 0$ and $\lim_{x\to 0^+} f(x) < 0$;

c) $\lim_{x\to 2^-} f(x) \geq 0$, $\lim_{x\to 2^+} f(x) \leq 0$, and $\lim_{x\to 2} f(x)$ exists;

d) $\lim_{x\to 4^-} f(x) = 1$ and $\lim_{x\to 4^+} f(x)$ does not exist.