1. Sketch the graph of a single function $f$ that satisfies all of the following conditions:
a) $f(-2)=3$ and $\lim _{x \rightarrow-2} f(x)=0$;
b) $\lim _{x \rightarrow 0^{-}} f(x)>0$ and $\lim _{x \rightarrow 0^{+}} f(x)<0$;
c) $\lim _{x \rightarrow 2^{-}} f(x) \leq 0, \lim _{x \rightarrow 2^{+}} f(x) \geq 0$, and $\lim _{x \rightarrow 2} f(x)$ exists;
d) $\lim _{x \rightarrow 4^{-}} f(x)=1$ and $\lim _{x \rightarrow 4^{+}} f(x)$ does not exist.
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