7. [9 points] On the axes provided below, sketch the graph of a single function $y=h(x)$ satisfying all the following:
$\square$ The function $h(x)$ is defined for $-7 \leq x \leq 7$.
$\square h(x)$ has global maximums at $x=-7$ and $x=3$.
$\square h(x)$ has an inflection point at $x=-5$.
$\square h(x)$ is continuous at $x=-3$ but not differentiable at $x=-3$.$h(x)$ has a local minimum at $(-1,-4)$ but is not continuous at $x=-1$.$h(x)$ has a critical point at $(2,5)$ that is neither a local maximum or a local minimum.
$\square h(x)$ satisfies the conclusion of the Mean Value Theorem on $[4,7]$ but not the hypothesis of this theorem.

Make sure that your graph is large and unambiguous.


