6. [12 points] On the axes provided below, sketch the graph of a single function $y=h(x)$ satisfying all of the following:

- $h(x)$ is defined for all $x$ in the interval $-5<x<5$.
- $h^{\prime}(x)>0$ for all $x<-3$.
- $\lim _{x \rightarrow-2} h(x)=0$.
- $h(-2)=-3$.
- The average rate of change of $h(x)$ between $x=-1$ and $x=1$ is 2 .
- $h(1)=2$.
- $h(x)$ is linear between $x=1$ and $x=3$.
- $h^{\prime}(2)=-1$.
- $\lim _{x \rightarrow 4^{-}} h(x)=-1$.
- $\lim _{x \rightarrow 4} h(x)$ does not exist.
- $h^{\prime}(x)<0$ for all $x>4$.

Make sure that your sketch is large and unambiguous.


