9. [9 points] On the grid below, sketch the graph of a single function $f(x)$ that fulfills all the requirements below.

- The domain of $f$ is $[-6,5)$
- The range of $f$ is $[-5,6]$
- $f(-1)=2$ and the average rate of change of $f(x)$ on the interval $[-1,3]$ is -1
- $f(x)<1$ for $x<-1$
- $f$ has a constant rate of change on the interval $[-6,-1)$.
- $f$ is increasing on the interval $[-6,-1)$
- $f$ is concave down on the interval $[-1,1)$
- $f$ is decreasing on the interval $[1,3]$
- $f$ is concave up on the interval $(3,5)$


